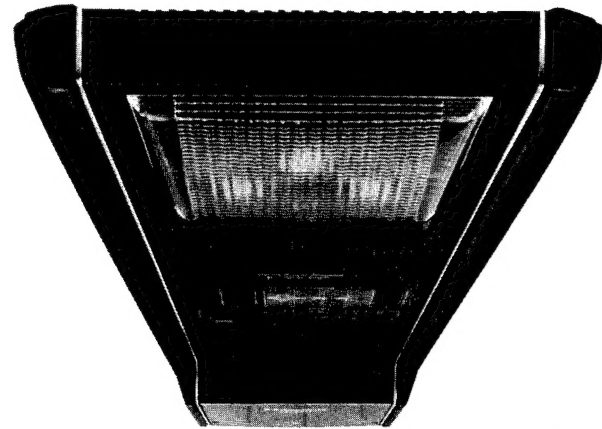


Service Manual

Car Audio

RM-310

Overhead Console Type Hi-Fi Car Audio System



General

| | |
|--------------------|---|
| Power Source: | DC 12 V (11–16 V usable) Negative ground only |
| Test Voltage: | 14.4 V |
| Power Consumption: | 4.5A at rated power output |
| Dimensions: | 708 (L) × 219 (W) × 41 (D) mm (27 ⁷ / ₈ " × 8 ⁵ / ₈ " × 1 ⁵ / ₈ "") Cassette Deck Section Depth 68 mm (2 ¹¹ / ₁₆ "") |
| Weight: | 3.6 kg (7 lb 15 oz) |

FM Tuner Section

| | |
|--------------------------------|------------------------------|
| Frequency Range: | 88–108 MHz |
| Usable Sensitivity: | 16 dBf (1.7 μ V/75 ohms) |
| 50 dB Quieting Sensitivity: | 18 dBf (2.2 μ V/75 ohms) |
| Signal to Noise Ratio: | 73 dB (A-Weighted) |
| Image Rejection: | 60 dB |
| IF Rejection: | 95 dB |
| RF IMD Rejection: | 80 dB |
| Frequency Response: | 30–15,000 Hz (\pm 3 dB) |
| Stereo Separation: | 35 dB at 1,000 Hz |

AM Tuner Section

| | |
|-------------------|--------------------------|
| Frequency Range: | 525–1610 kHz (571~186m) |
| Max. Sensitivity: | 23 dB (at 500 mW output) |
| Selectivity: | 35 dB (\pm 10 kHz) |

Cassette Deck Section

| | |
|------------------------|----------------------------|
| Wow and Flutter: | 0.15% (WRMS) |
| Cross-Talk: | 55 dB |
| Signal to Noise Ratio: | 55 dB (A-Weighted) |
| Frequency Response: | 45–12,000 Hz (\pm 3 dB) |
| Stereo Separation: | 40 dB at 1,000 Hz |

Audio Amplifier Section

| | |
|------------------------|--|
| Rated Power Output: | (2 CH) 10 Watts per channel minimum continuous average power into 4 ohms, both channels driven, from 30 to 20,000 Hz with no more than 1% total harmonic distortion. (4 CH) 4 Watts per channel minimum continuous average power into 4 ohms, all channels driven, from 60 to 20,000 Hz with no more than 5% total harmonic distortion. |
| Max. Power Output: | (2 CH) Total 46 Watts RMS 23 Watts per channel (4 CH) Total 28 Watts RMS 7 Watts per channel |
| Distortion: | (2 CH) 0.25% at –3 dB at Rated Power, 1,000 Hz |
| Frequency Response: | (2 CH) 15 to 20,000 Hz, \pm 3 dB at 1 Watt |
| Signal to Noise Ratio: | (2 CH) 80 dB (A-Weighted) |
| Tone Control: | 50 Hz \pm 10 dB 250 Hz \pm 6 dB, –10 dB 10 kHz \pm 10 dB |
| Loudness: | 100 Hz +8 dB |

Specifications are subject to change without notice.

SPECIAL FEATURES

Tuner Section

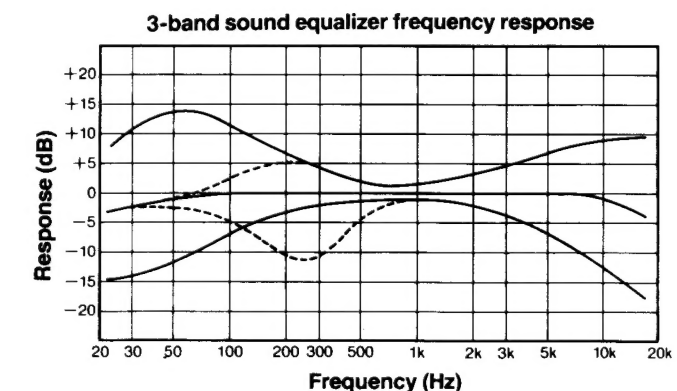
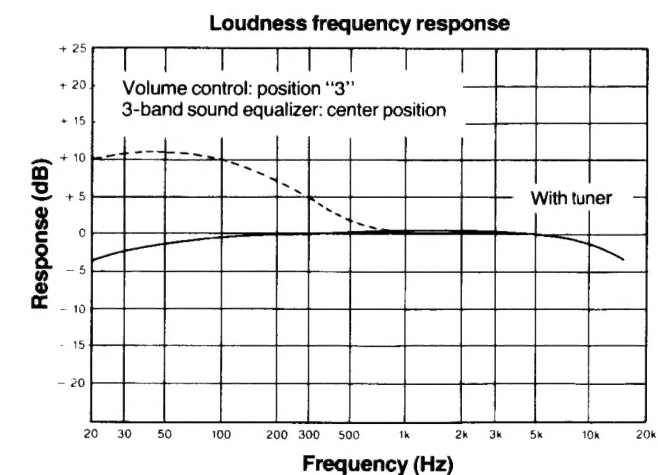
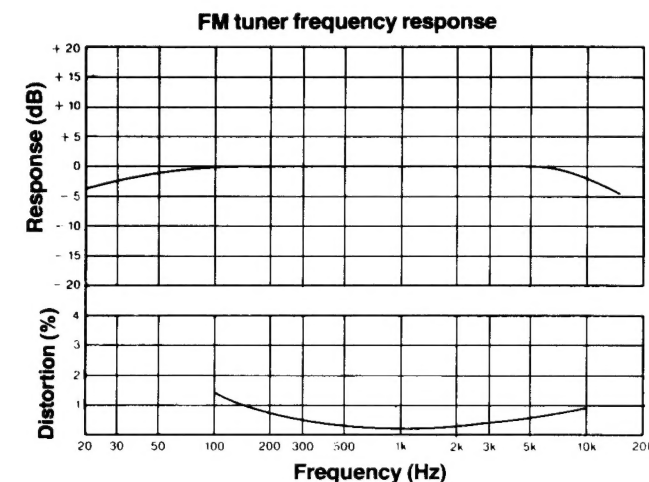
- FM/AM/FM Stereo Tuner
- Tuning Optimizer LED Indicators
- FM Stereo Auto/Mono Switch and Stereo Indicator
- DX/Local Sensitivity Selector
- Muting Circuit on FM
- Built-in INQ (Impulse Noise Quieting) Circuit
- 3 Station Guides on Tuning Dial

Cassette Deck Section

- Repeatrack Cassette Player System
- Locking Fast forward and Rewind
- Auto Eject System when Ignition Key is Off

Audio Amplifier Section

- 3-Band Sound Equalizer with Center-detent
- 10 LED Output Power Indicator
- Balance and Fader Controls with Center-detent
- Loudness and High filter Switches
- Volume Control with 21 Detents
- Power Amplifier built into Console Unit
- 20 Watts (RMS) Total Output Power



CONTROLS AND FUNCTIONS

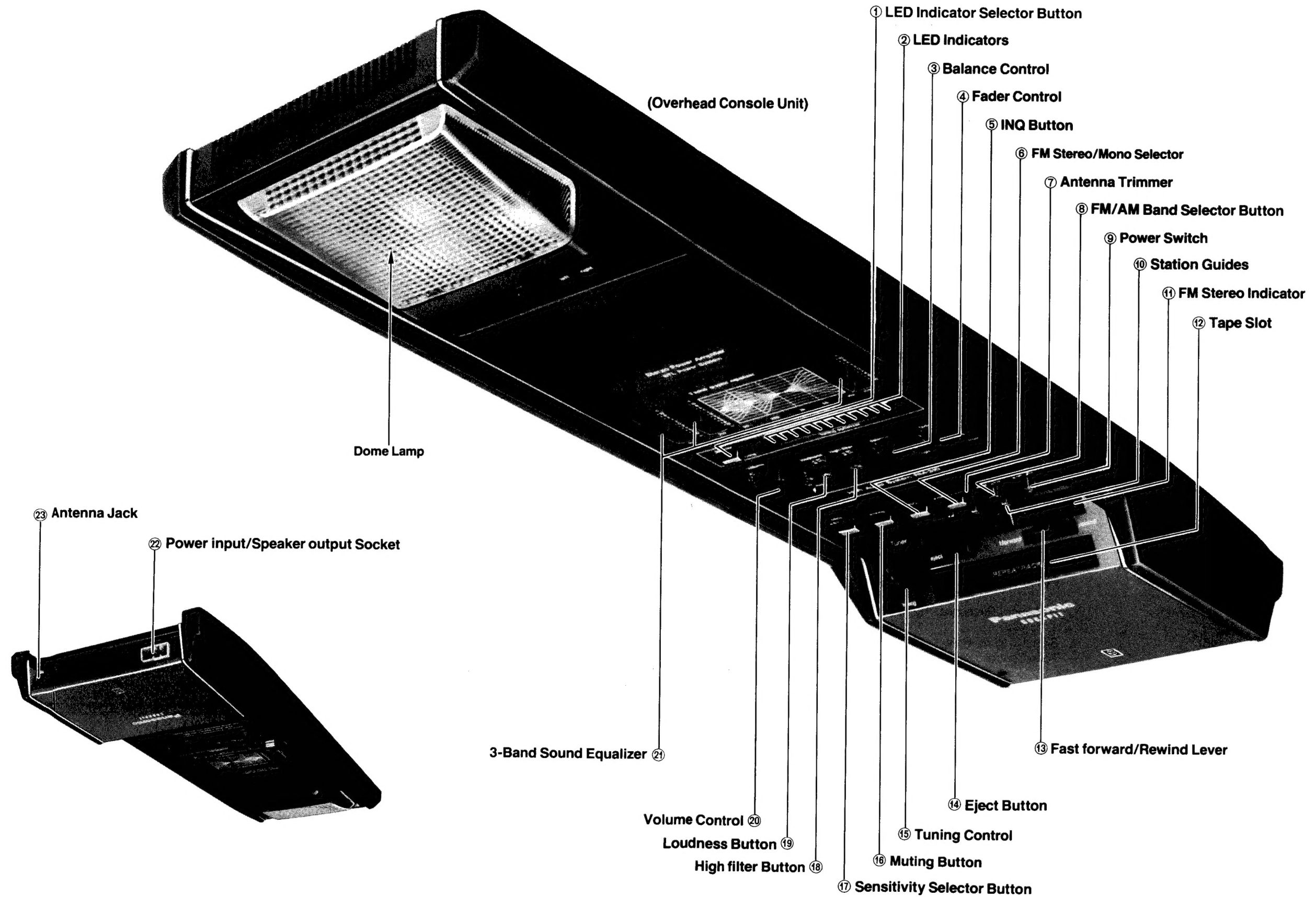


Fig. 1

① LED indicator selector button

- For tape play set this button to "level" (■).
The output level of the left and right speakers is indicated by the flashing of the LED indicators ②. When the button is set to the "tuning" (▲), only the center section (red) lights.
- For radio reception, first set the button to "tuning" (▲) and then tune in the station. If the button is set to "level" (■) after tuning, the output level will be indicated by the flashing of the LED indicators just as with tape play.

② LED indicators

These indicators are coupled with the LED indicator selector button ① and it lights as follows.

● Tape playback

| LED indicator selector button ① | Lighting mode |
|---------------------------------|---|
| level (■) | <p>This always lights.</p> <p>These light in accordance with output level strength.</p> |

● Radio reception

| LED indicator selector button ① | Lighting mode |
|---------------------------------|---|
| level (■) | <p>Lights only during reception.</p> <p>These light in accordance with output level strength.</p> |
| tuning (▲) | <p>This lights when tuning.</p> <p>These light if tuning shifts to the left. These light if tuning shifts to the right.</p> <p>Rotate Tuning Control ⑬ and adjust so that center red indicator only lights.</p> |

③ Balance control

When this control is turned to the left, the sound volume heard through the left speaker increases and when turned to the right, the sound volume heard through the right speaker increases. The sound heard through both the left and right speakers is the same when the control is set to its center detent position.

④ Fader control

When using a 4-speaker system, use this control to attain a balance of sound between the front and the rear speakers.

Make sure that the control is set in the center position if you have only a 2-speaker system.

⑤ INQ button

Use this button to suppress ignition and pulse-like noise. If the signals are weak, set the button to "off".

⑥ FM stereo/mono selector button

● Depress this button to set it in the "auto st" position (LED lights up), for normal operation.

A stereo program will be automatically come through in stereo and a mono program will be automatically come through in mono.

● If the signals from the broadcasting station are weak, set the button to "mono" (LED goes off) in order to reduce the amount of noise. In such cases, a stereo program is also heard in mono and the FM Stereo indicator ⑪ does not light up.

⑦ Antenna trimmer

This is the antenna trimmer for AM reception only. After installing and connecting it, adjust it optimally.

⑧ FM/AM band selector button

Set this button to your desired radio band; FM or AM.

⑨ Power switch

Depress this button to "on" (■), power is supplied to all the components except the cassette deck. Cassette deck power comes on when tape is inserted.

⑩ Station guides

Move the guides and preset them to the positions on the tuning dial where your favorite stations are located. They will then help you to tune in the stations more easily.

⑪ FM stereo indicator

This lights up when the FM stereo/mono selector button ⑥ is set to "auto st" and when a stereo broadcast is received.

When the FM stereo/mono selector button is set to "mono", the indicator will not light up even when a stereo broadcast is being received, and the stereo broadcast will be received in mono.

⑫ Tape slot

Insert the cassette tape into this slot. Make sure that the exposed side of the tape is inserted first.

⑬ Fast forward/rewind lever
●Fast forward

Move the lever to the left (f. forward). When the tape has been wound forward at high speed, and reaches it's end it will be automatically ejected.

●Rewind

Move the lever to the right (rewind). When the tape is rewound to it's beginning, tape play will start automatically.

⑭ Eject button

Depress this button to eject the cassette tape. The tape will then be automatically ejected and the power switched off. However, if the Power switch ⑨ is set to "on", operation will be automatically switched over to radio operation.

⑮ Tuning control

Use this control to tune in your favorite stations. When a station has been tuned in properly, only the center (red) part of the LED indicator ② lights. (LED indicator selector button "tuning").

⑯ Muting button

Use this to suppress interstation noise (noise heard between FM broadcasting stations).

⑰ Sensitivity selector button

Keep this button normally in the "DX" (▲) position. In areas where the signals are strong, the sound may be distorted or there may be interference. In this case, set the button to "local" (■).

⑱ High filter button

Set this button to "on" (▲) when playing back a tape which has been recorded with the Dolby system and when a reduction in the amount of tape hiss and other high-frequency range noise is desired.

⑲ Loudness button

At low volume levels, the response of the human ear primarily in the mid range area, and response to low frequency is poor. As the volume level increases the response levels off, and the low and mid range are heard with equal loudness. The loudness control in this unit is designed to compensate for this human deficiency, by boosting the bass end of the audio spectrum at low volume levels, and gradually diminishing the boost as the volume control is advanced. At a volume control setting of 5 or higher the frequency response is essentially flat.

⑳ Volume control

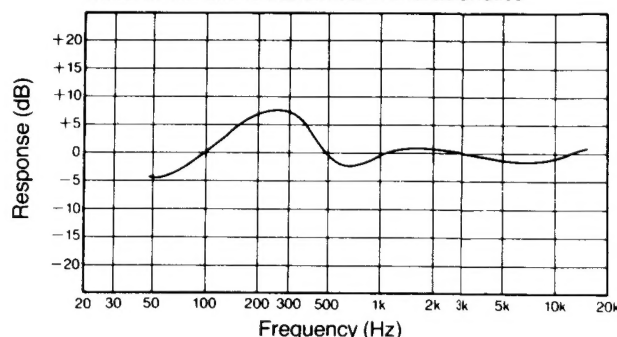
Use this to adjust the volume to the preferred level.

㉑ 3-band sound equalizer

Use this to adjust the sound to the tone quality of your preference, bearing in mind that the acoustics inside a vehicle differ according to the interior decor and other factors.

When each of the knobs is slid toward "+", the sound is emphasized and when slid toward "-", the sound is reduced. Normally, the acoustic response inside a vehicle is such that the frequencies neighboring 250 Hz tend to be emphasized and the bass sound uncontrolled. In cases like this, move the "250 Hz" control toward "-" and once this imitation bass sound is reduced, the real bass will appear to be balanced.

Usual in-car sound transmission characteristics


㉒ Power input/Speaker output Socket

Plug in the supplied inter connection harness. These are used to connect the overhead console unit's power input, and also for the speaker output cords.

㉓ Antenna Jack

Plug in the supplied antenna lead plug and connect it to car antenna.

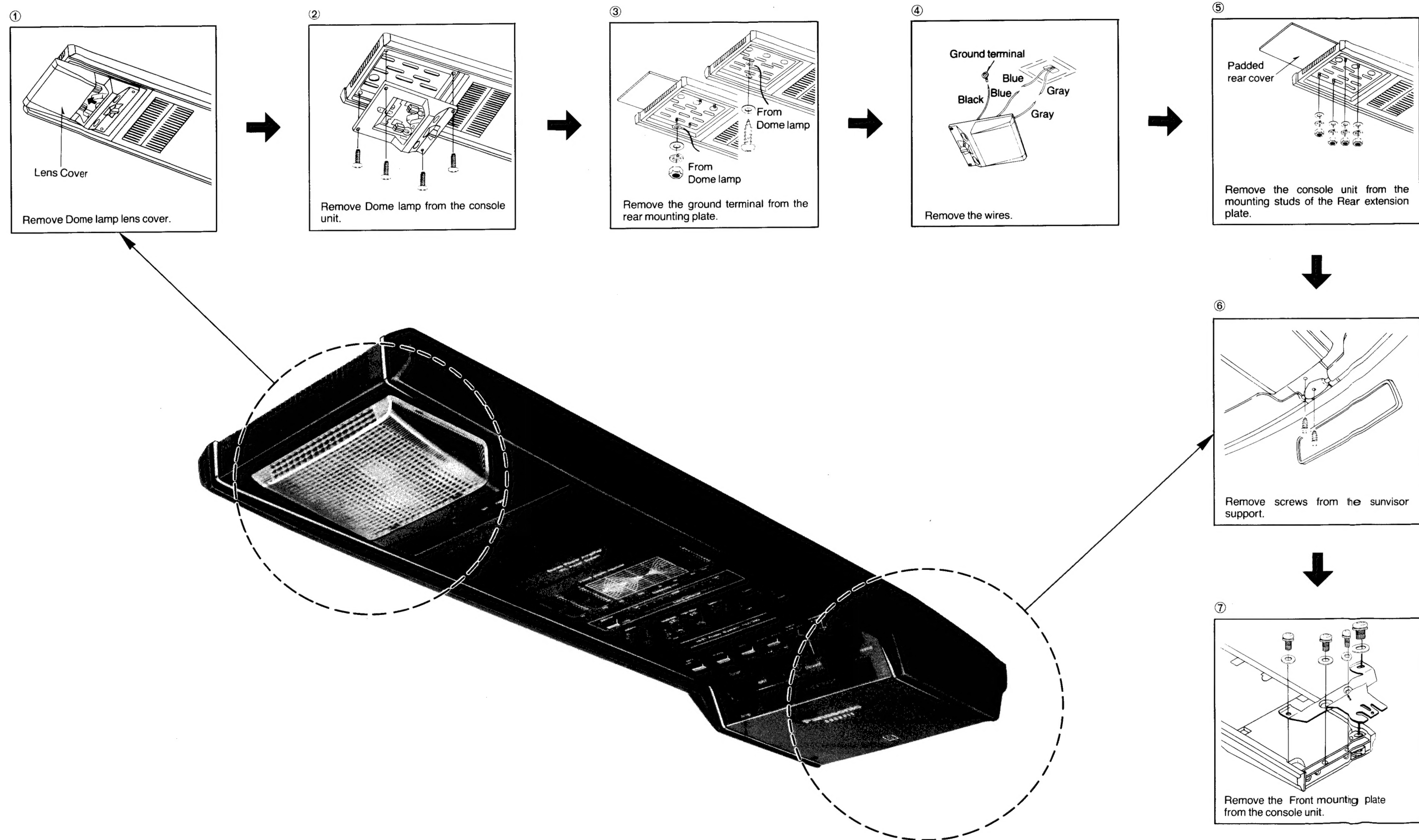
Power amplifier protection circuit

The power amplifier contains a protection circuit to safeguard the unit from damage.

It cuts off the main amplifier's circuits automatically, when the speaker leads or terminals are shorted. (The FM/AM tuner, cassette deck and preamplifier continue to function normally.)

If there is no sound even when the Volume control ㉑ is rotated clockwise and the LED indicator ④ lights up, this circuit may have been actuated. Switch the power off and check the speaker connections before switching the power on again.

HOW TO REMOVE OVER-HEAD CONSOLE UNIT FROM THE ROOF



DISASSEMBLY INSTRUCTIONS

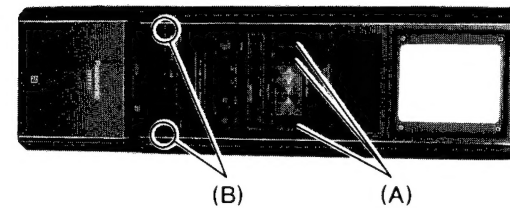


Fig. 3

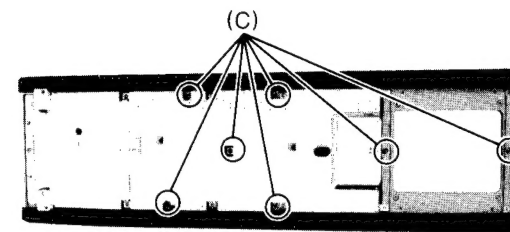


Fig. 4

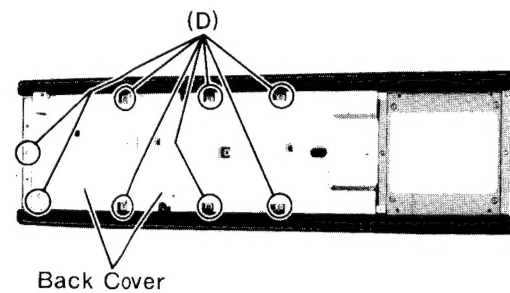


Fig. 5

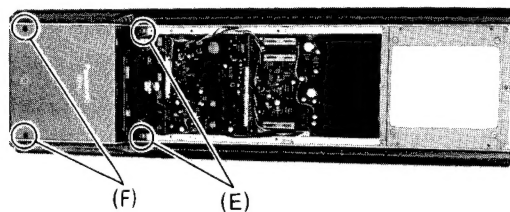


Fig. 6

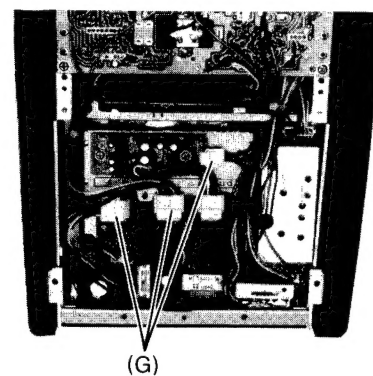


Fig. 7

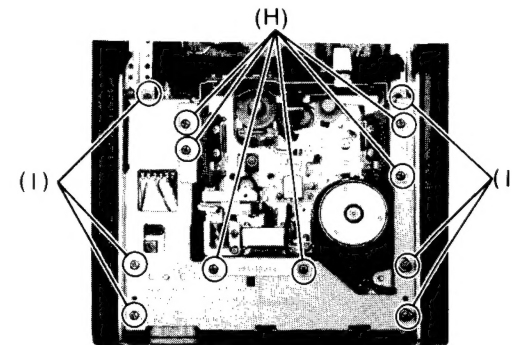


Fig. 8

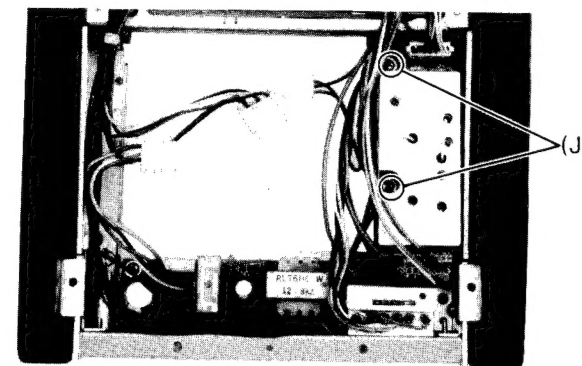


Fig. 9

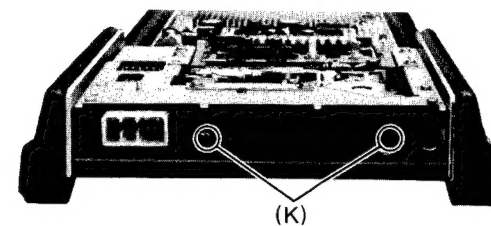


Fig. 10

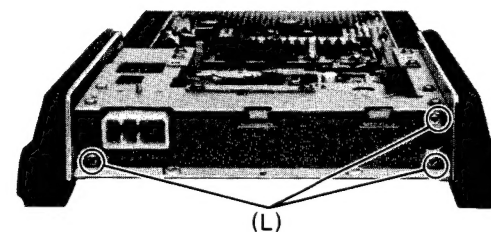


Fig. 11

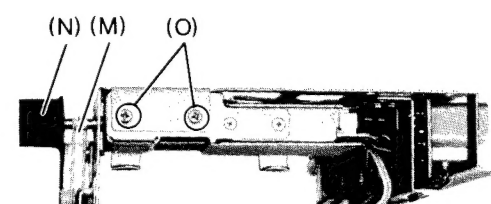


Fig. 12

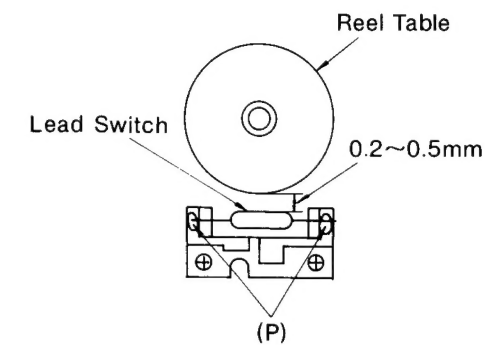


Fig. 13

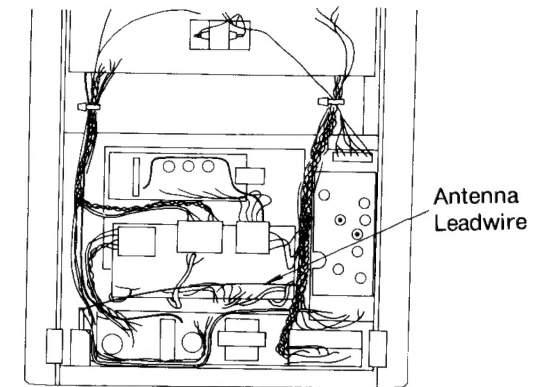


Fig. 14

| Procedure | To remove— | Remove— | Shown in Fig.— |
|-----------|--|----------------------------------|----------------|
| 1 | Front Panel, Deck Cover and Back Cover | Knobs(A) × 3 | 3 |
| 2 | | Screws (3 × 16)(B) × 2 | 3 |
| 3 | | Red Screws (3 × 12)(C) × 7 | 4 |
| 4 | | Screws (3 × 6)(D) × 8 | 5 |
| 5 | | Red Screw (3 × 8)(E) × 2 | 6 |
| 6 | | Screw (3 × 10)(F) × 2 | 6 |
| 7 | Cassette Deck ※1 | Sockets(G) × 3 | 7 |
| 8 | | Red Screws (3 × 6)(H) × 6 | 8 |
| 9 | Dial Chassis | Screws (3 × 8)(I) × 6 | 8 |
| 10 | | Screws (3 × 6)(J) × 2 | 9 |
| 11 | | Screws (3 × 8)(K) × 2 | 10 |
| 12 | | Screws (3 × 8)(L) × 3 | 11 |
| 13 | Tuner ※2 | Dial Cord(M) | 12 |
| 14 | | Knob(N) × 1 | 12 |
| 15 | | Screws (3 × 5)(O) × 2 | 12 |
| 16 | Lead Switch ※3 | Unsolder(P) × 2 | 13 |

※1. Please treat the leads as shown in Fig. 14.

※2. Refer to dial threading.

※3. Keep a gap (0.2~0.5 mm) as shown in Fig. 13.

DIAL THREADING

Note: Cord length is 397mm (15½").

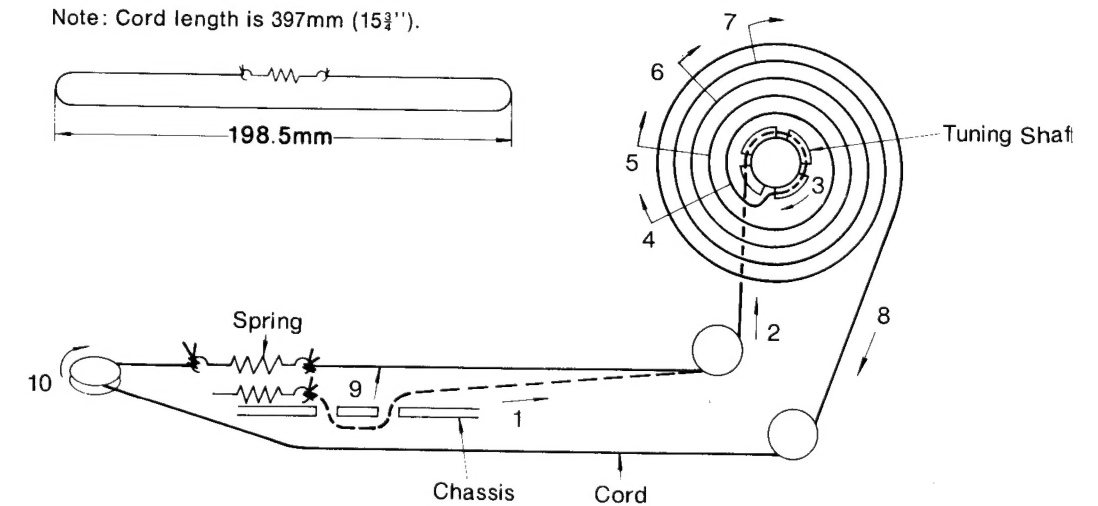


Fig. 15

BLOCK DIAGRAM

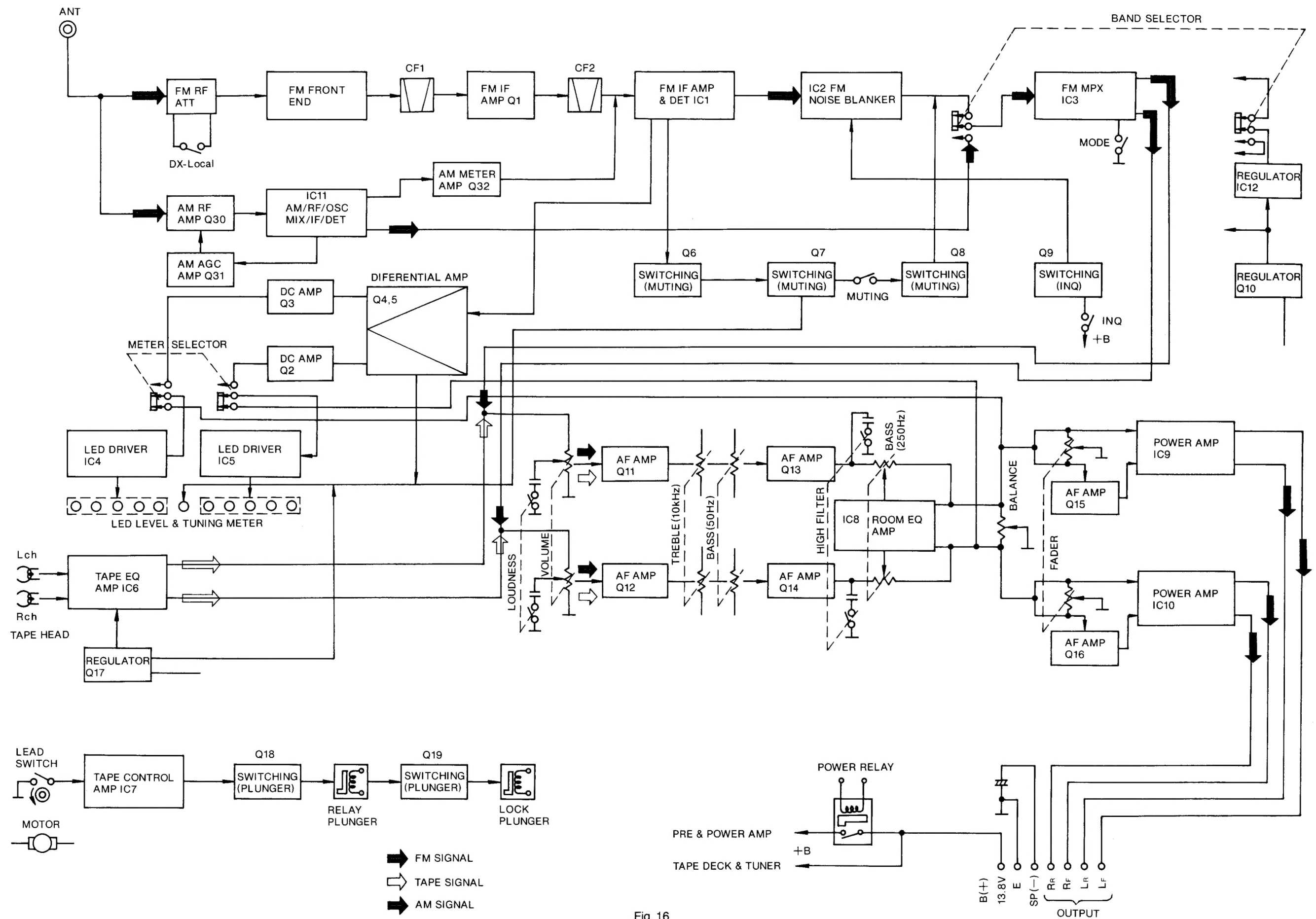


Fig. 16

TUNER ALIGNMENT

1. Set power switch to on.
2. Set sensitivity switch to DX.
3. Set stereo auto switch off or on...(separation alignment only)
4. Set muting switch to off or on...(pilot alignment only)
5. Set INQ switch to off.
6. Set band switch to AM or FM.
7. Set loudness switch to off.
8. Set high-filter switch to off.
9. Set selector switch to tuning.
10. Set equalizer to center.
11. Set balance and fader to center.
12. Set volume to 500 mW.
13. Set power source voltage to 13.8 V DC.

AM ALIGNMENT (See Figs. 17, 18)

| SIGNAL GENERATOR or SWEEP GENERATOR | | DIAL SETTING | INDICATOR (VTVM or SCOPE) | ADJUSTMENT | REMARKS |
|---|-----------|----------------------------|---|--|--|
| CONNECTIONS | FREQUENCY | | | | |
| Positive side to point ▼. | 455 kHz | Point of non-interference. | Positive side to point ▼. Negative side to point ▼. | T ₈₀₂ (IFT) T ₈₀₃ (IFT) | ① Pull out T ₈₀₃ to the top of bobbin. ② Adjust T ₈₀₂ so that 455 kHz marker appears at the center. (Refer to Fig. 20.) ③ Adjust T ₈₀₃ for maximum amplitude. |
| AM-RF ALIGNMENT | | | | | |
| Connect to antenna terminal through AM dummy antenna (Refer to Fig.19.) | 520 kHz | Minimum frequency. | Output meter across speaker voice coil. | T ₈₀₁ (OSC Coil) | Adjust for maximum output. |
| " | 1400 kHz | Tune to signal. | " | CT ₈₀₁ (Ant. Trim.) CT ₈₀₃ (Ant. Trim.) CT ₈₀₄ (Ant. Trim.) | ① Set CT ₈₀₁ to center. ② Adjust CT ₈₀₃ and CT ₈₀₄ for maximum output. |
| " | 1680 kHz | Maximum frequency. | " | CT ₈₀₂ (OSC Trim.) | Adjust for maximum output. |

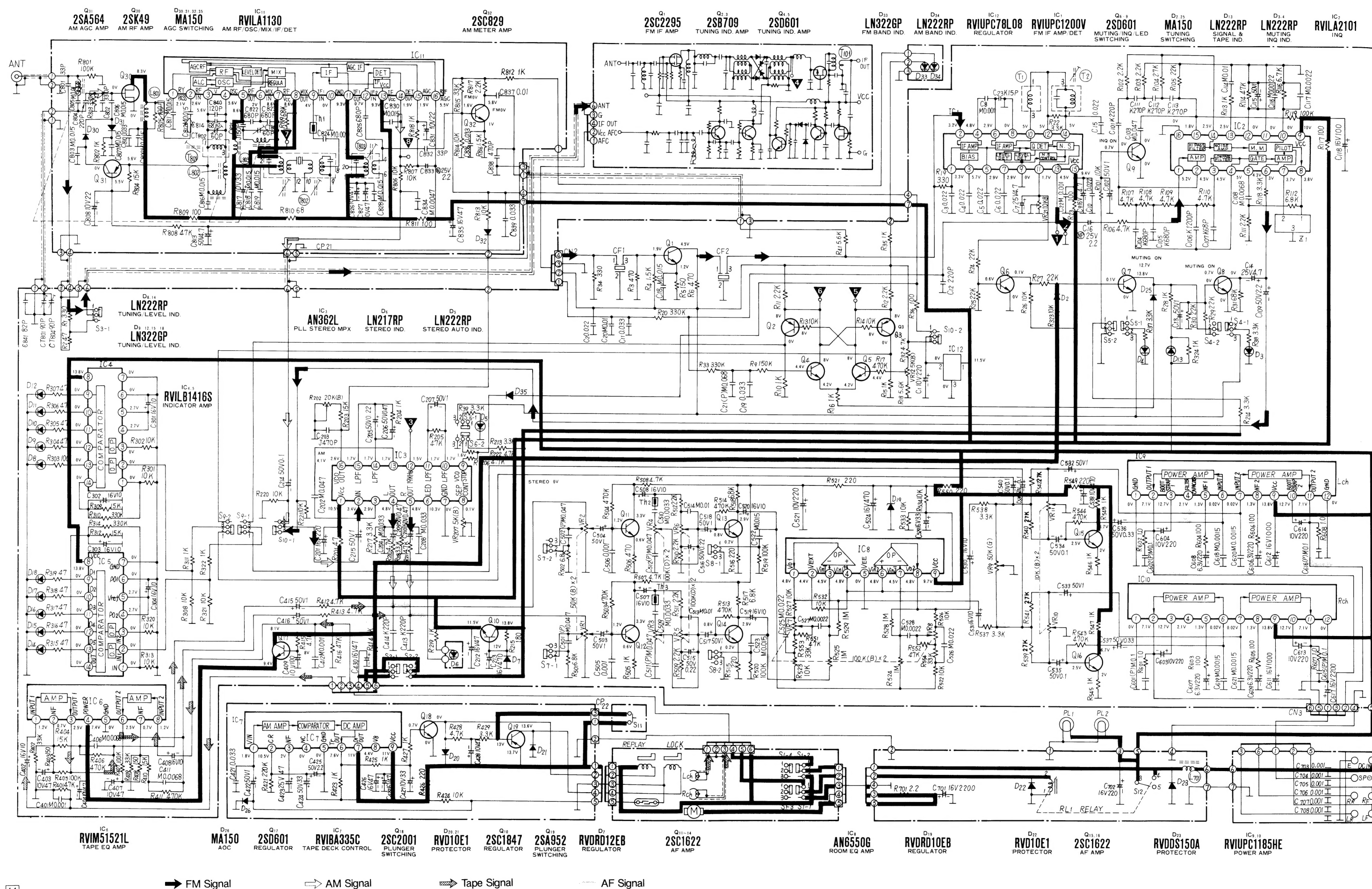
FM ALIGNMENT (See Fig. 17)

| SIGNAL GENERATOR or SWEEP GENERATOR | | DIAL SETTING | INDICATOR (VTVM or SCOPE) | ADJUSTMENT | REMARKS |
|--|-------------------------|---|---|------------------|---|
| CONNECTIONS | FREQUENCY | | | | |
| FM-IF & DETECTOR ALIGNMENT | | | | | |
| Apply signal thru. 0.001 μ F to point ▼ ground of SG to point ▼. | 10.7 MHz (400 kHz SWP.) | Point of non-interference. (on/about 90 MHz). | Connect vert. amp. of scope to point ▼. | T ₁₀₁ | ① Set VR ₂₁ minimum. ② Pull out T ₂ and confirm that wave form should be normal. ③ Adjust for maximum amplitude and proper linearity between ± 100 kHz markers. (Refer to Fig. 20.) |
| " | " | " | " | T ₂ | Adjust T ₂ so that 10.7 MHz marker appears at the center. (Refer to Fig. 21.) |
| MUTING ALIGNMENT | | | | | |
| SIGNAL GENERATOR or SWEEP GENERATOR | | DIAL SETTING | DC VTVM | ADJUSTMENT | REMARKS |
| CONNECTIONS | FREQUENCY | | | | |
| Connect to antenna terminal through FM dummy antenna (Refer to Fig. 22.) | 98 MHz (30% Mod.) | Tune to signal. | Output meter across speaker voice coil. | VR ₂₁ | ① Tune signal to obtain maximum output. ② Set signal generator output to 60 dB. ③ Turn volume control so that DC VTVM reading becomes 0.45 V. ④ Set signal generator output to -10 dB. ⑤ Turn VR ₂₁ so that DC VTVM reading becomes 0.017~0.022 V. |

LED METER ALIGNMENT (See Fig. 17)

| SIGNAL GENERATOR or SWEEP GENERATOR | | DIAL SETTING | DC VTVM (Center 0) | ADJUSTMENT | REMARKS |
|---|-----------|-----------------|---|------------------|--|
| CONNECTIONS | FREQUENCY | | | | |
| Connect to antenna socket through FM dummy antenna. | 98 MHz | Tune to signal. | Positive side to point ▼. Negative side to point ▼. | VR ₁₂ | ① Tune signal to obtain maximum output. ② Set signal generator output to 60 dB. ③ Turn VR ₁₂ so that DC VTVM reading becomes 0. |

SCHEMATIC DIAGRAM—MODEL RM-310

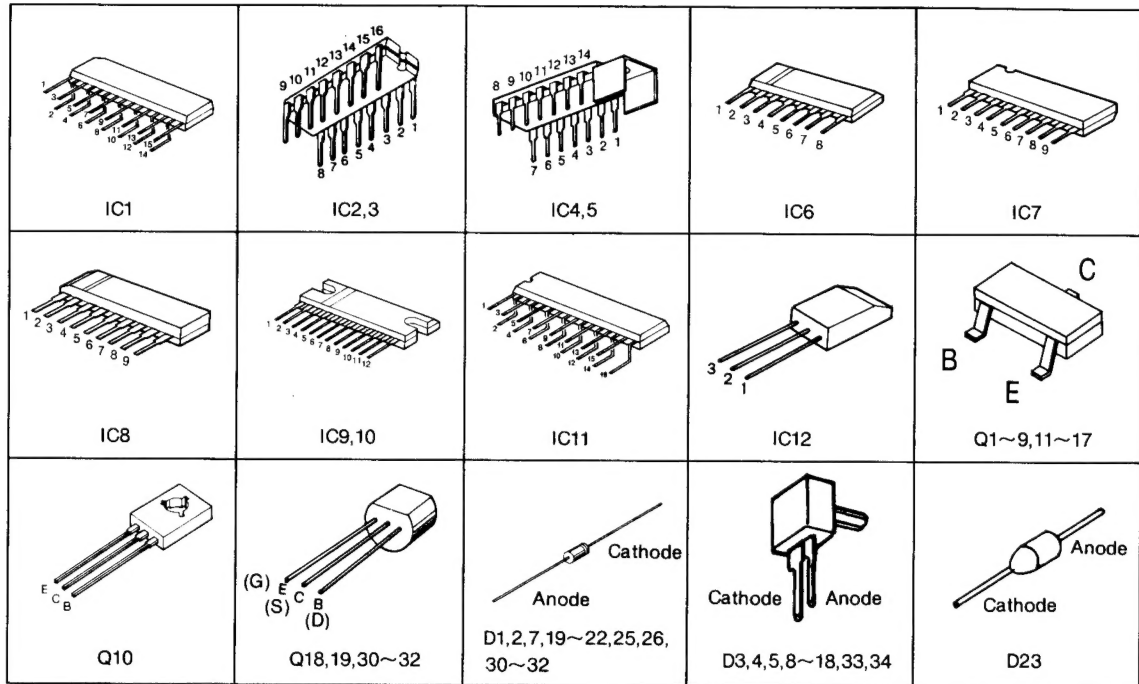


Reference:

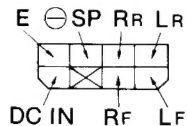
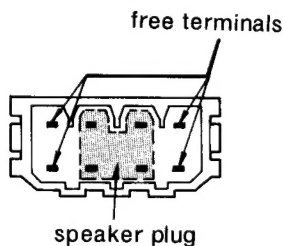
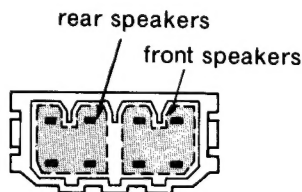
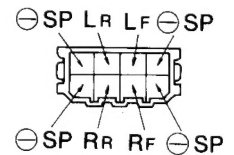
Relation between terminal voltages of INDICATOR AMP, IC4 (IC5) and illuminated order of LED level meter.

| Illuminated order of LED | | D12 (D18) | D11 (D17) | D10 (D16) | D9 (D15) | D8 (D14) |
|-------------------------------|-----------------|-----------|-----------|-----------|----------|----------|
| Terminal voltage of IC4 (IC5) | ② in mV (input) | 10 | 18 | 32 | 44 | 62 |
| | ⑨ in V | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | ⑩ in V | 0 | 2.5 | 2.5 | 2.5 | 2.5 |
| | ⑪ in V | 0 | 0 | 2.5 | 2.5 | 2.5 |
| | ⑫ in V | 0 | 0 | 0 | 2.5 | 2.5 |
| | ⑬ in V | 0 | 0 | 0 | 0 | 2.7 |
| Output power in W | | 0.05 | 0.16 | 0.5 | 1 | 2 |

Each value shown in above table is merely a guide.

**Notes:**

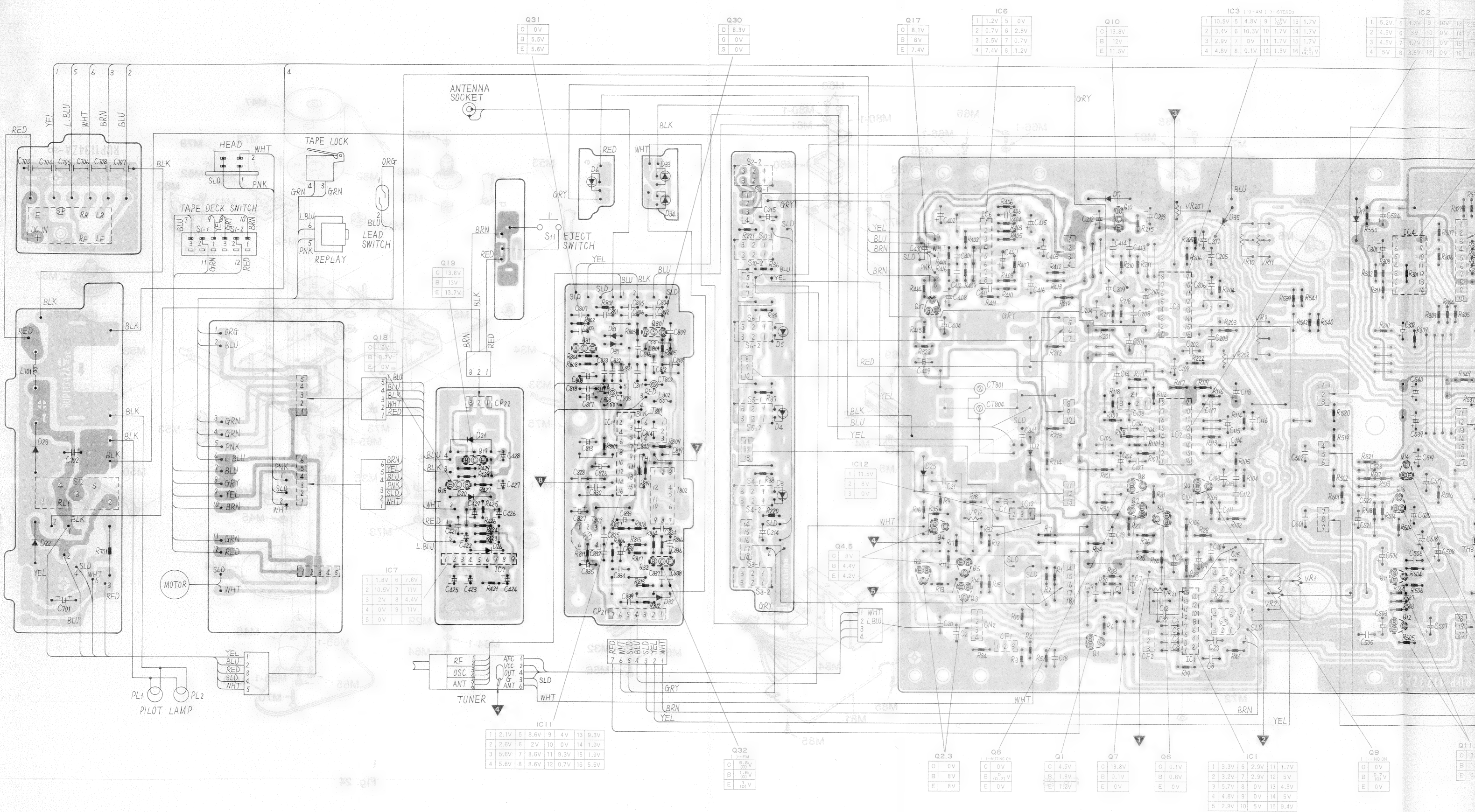
- S₁₋₁~S₁₋₄: Power switch for tape deck in "OFF" position.
- S₂₋₁, S₂₋₂: Power switch for tuner in "OFF" position.
- S₃₋₁, S₃₋₂: Sensitivity selector switch in "DX" position.
- S₄₋₁, S₄₋₂: Muting switch in "OFF" position.
- S₅₋₁, S₅₋₂: INQ switch in "OFF" position.
- S₆₋₁, S₆₋₂: Stereo auto switch in "OFF" position.
- S₇₋₁, S₇₋₂: Loudness switch in "OFF" position.
- S₈₋₁, S₈₋₂: High-filter switch in "ON" position.
- S₉₋₁, S₉₋₂: Meter selector switch in "Level" position.
- S₁₀₋₁, S₁₀₋₂: Band selector switch in "FM" position.
- S₁₁: Eject switch in "OFF" position.
- S₁₂: Relay switch in "OFF" position.
- DC voltage measurements are taken with electronics voltmeter from between measured parts and ground.

**2-Speaker System****A****4-Speaker System****B**

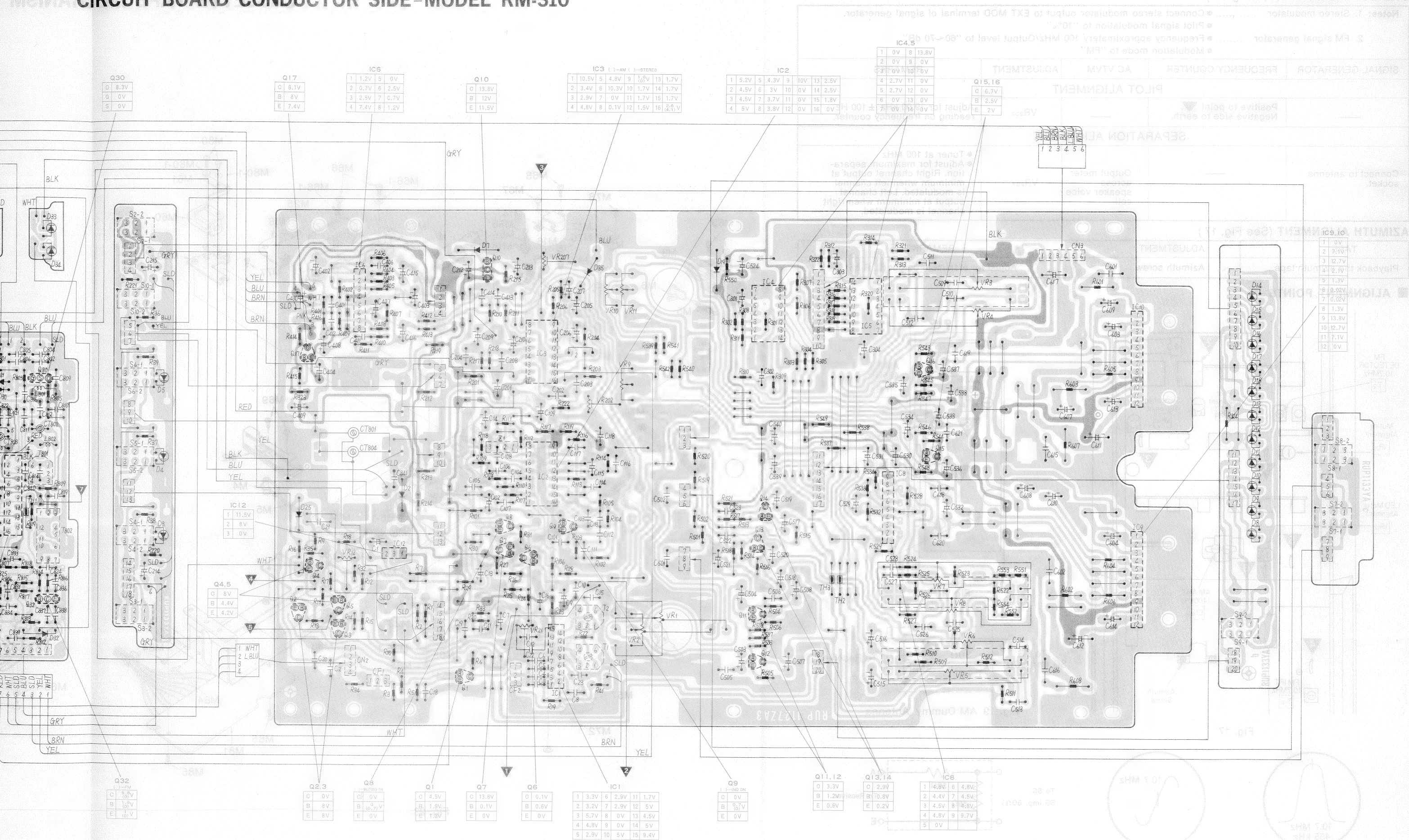
⊖ Terminal

⊕ Terminal

CIRCUIT BOARD CONDUCTOR SIDE—MODEL RM-310



CIRCUIT BOARD CONDUCTOR SIDE—MODEL RM-310



STEREO ALIGNMENT (See Fig. 17)

- Notes:**
1. Stereo modulator
 - Connect stereo modulator output to EXT MOD terminal of signal generator.
 - Pilot signal modulation to "10%"
 2. FM signal generator
 - Frequency approximately 100 MHz/Output level to "60~70 dB"
 - Modulation mode to "FM"

| SIGNAL GENERATOR | FREQUENCY COUNTER | AC VTVM | ADJUSTMENT | REMARKS |
|-----------------------------|---|---|-------------------|--|
| PILOT ALIGNMENT | | | | |
| — | Positive to point ▼. Negative side to earth. | — | VR ₂₀₂ | Adjust for 19.00 kHz ± 100 Hz reading on frequency counter. |
| SEPARATION ALIGNMENT | | | | |
| Connect to antenna socket. | — | Output meter across speaker voice coil. | VR ₂₀₇ | <ul style="list-style-type: none"> • Tuner at 100 MHz • Adjust for maximum separation. Right channel output at minimum when left channel is modulated. Left channel output at minimum when right channel is modulated. |

AZIMUTH ALIGNMENT (See Fig. 17)

| TAPE | ADJUSTMENT | REMARKS |
|----------------------------|----------------|--------------------------------------|
| Playback the azimuth tape. | Azimuth screw. | Adjust for maximum output (L, R ch). |

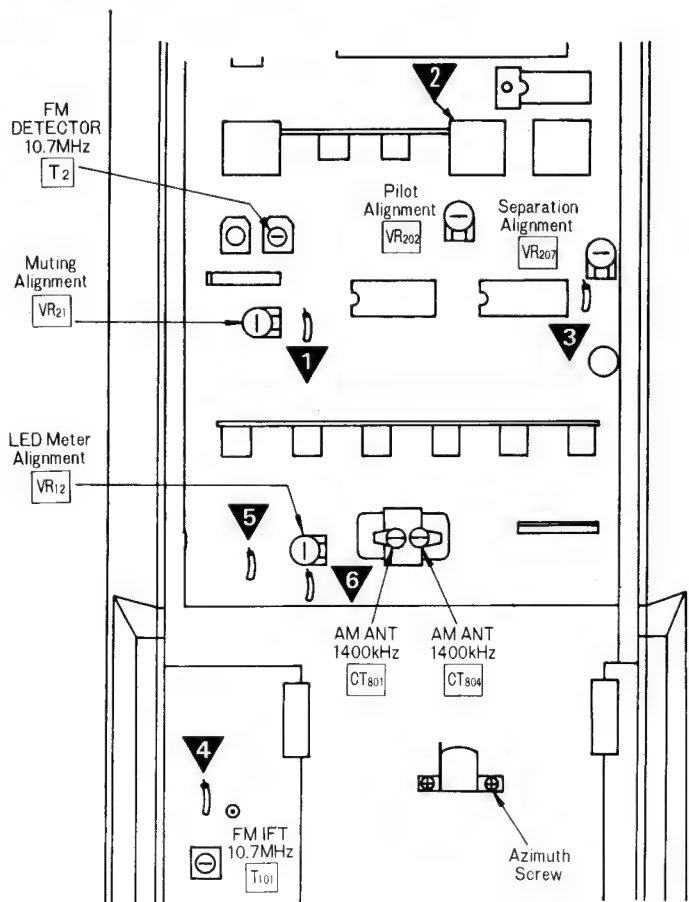
ALIGNMENT POINTS

Fig. 17

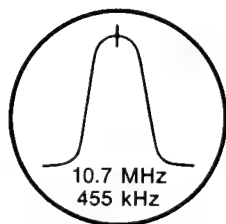


Fig. 20

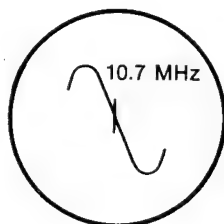


Fig. 21

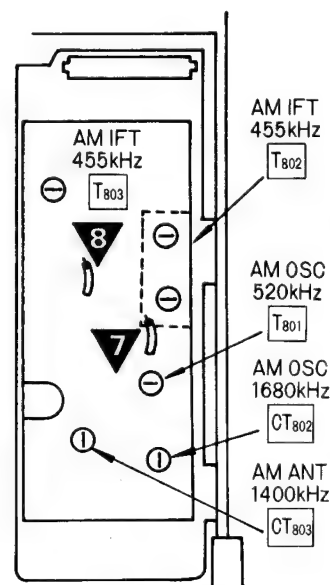


Fig. 18

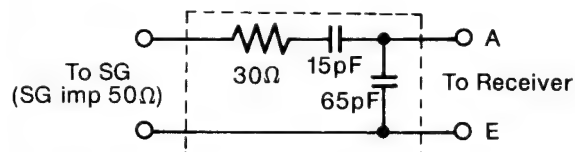


Fig. 19 AM Dummy Antenna

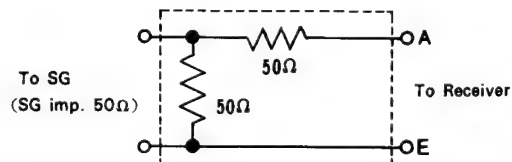


Fig. 22 FM Dummy Antenna

CASSETTE TAPE MECHANISM EXPLODED VIEWS

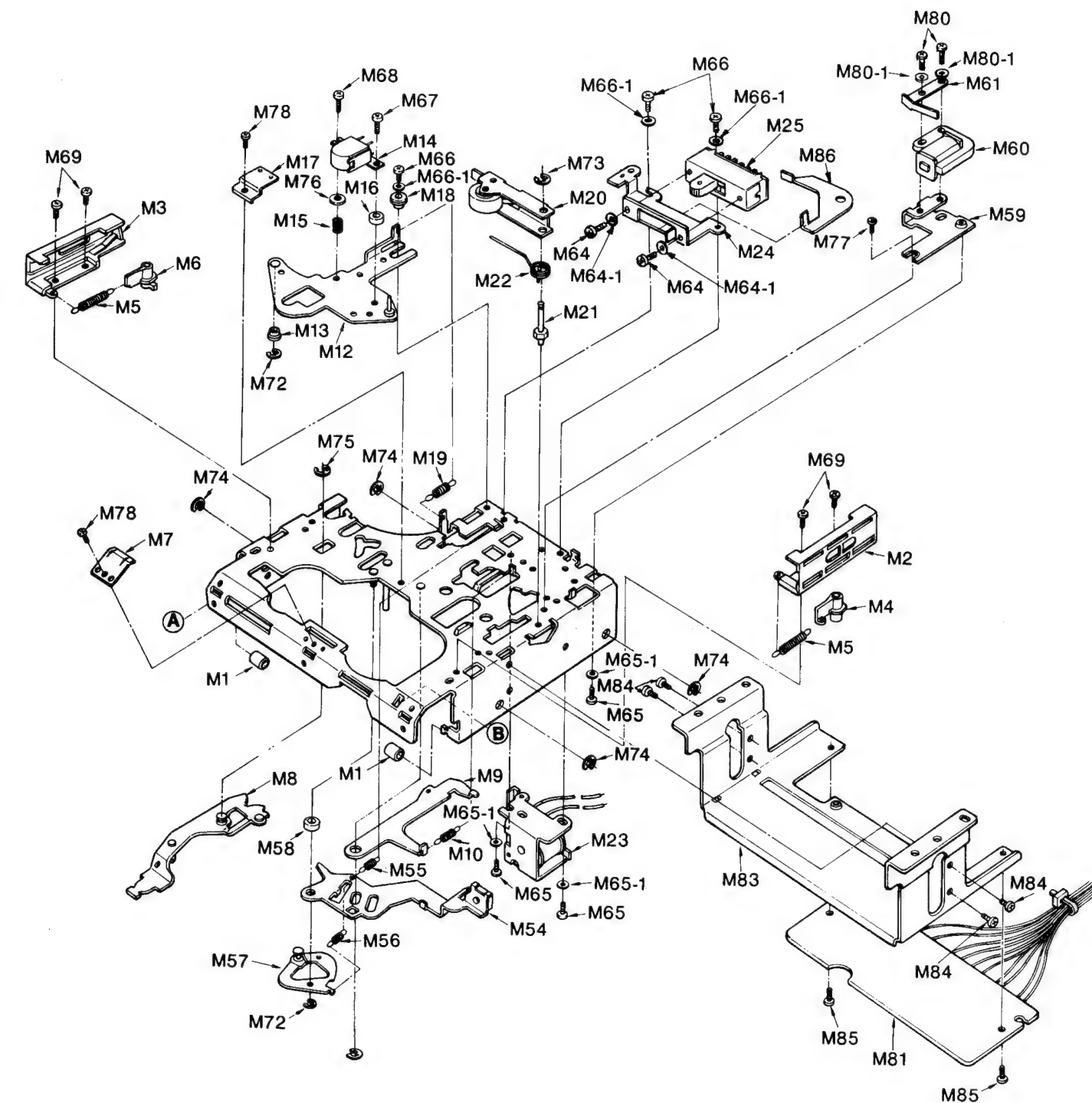


Fig. 23

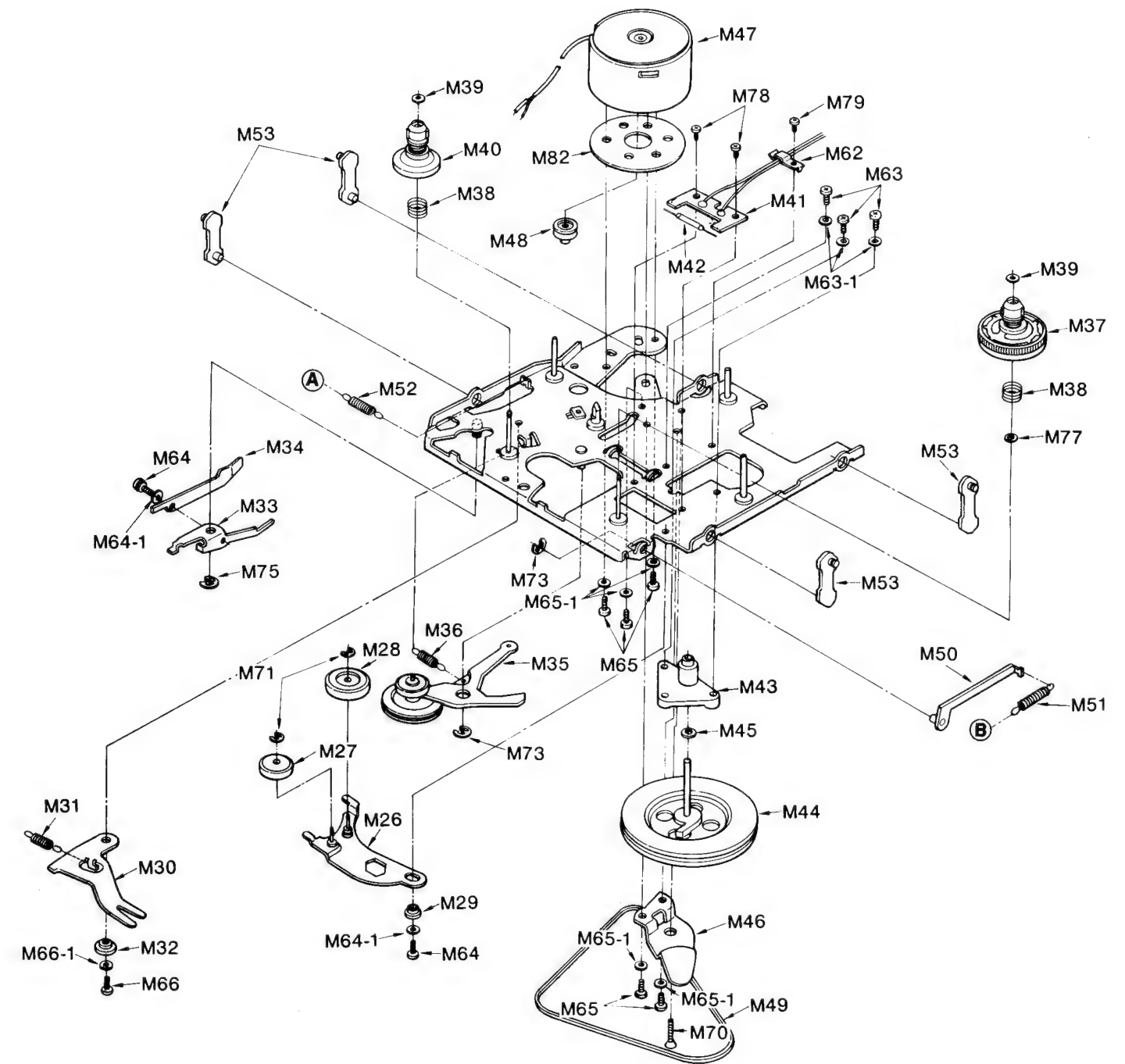


Fig. 24

CABINET PARTS LOCATIONS

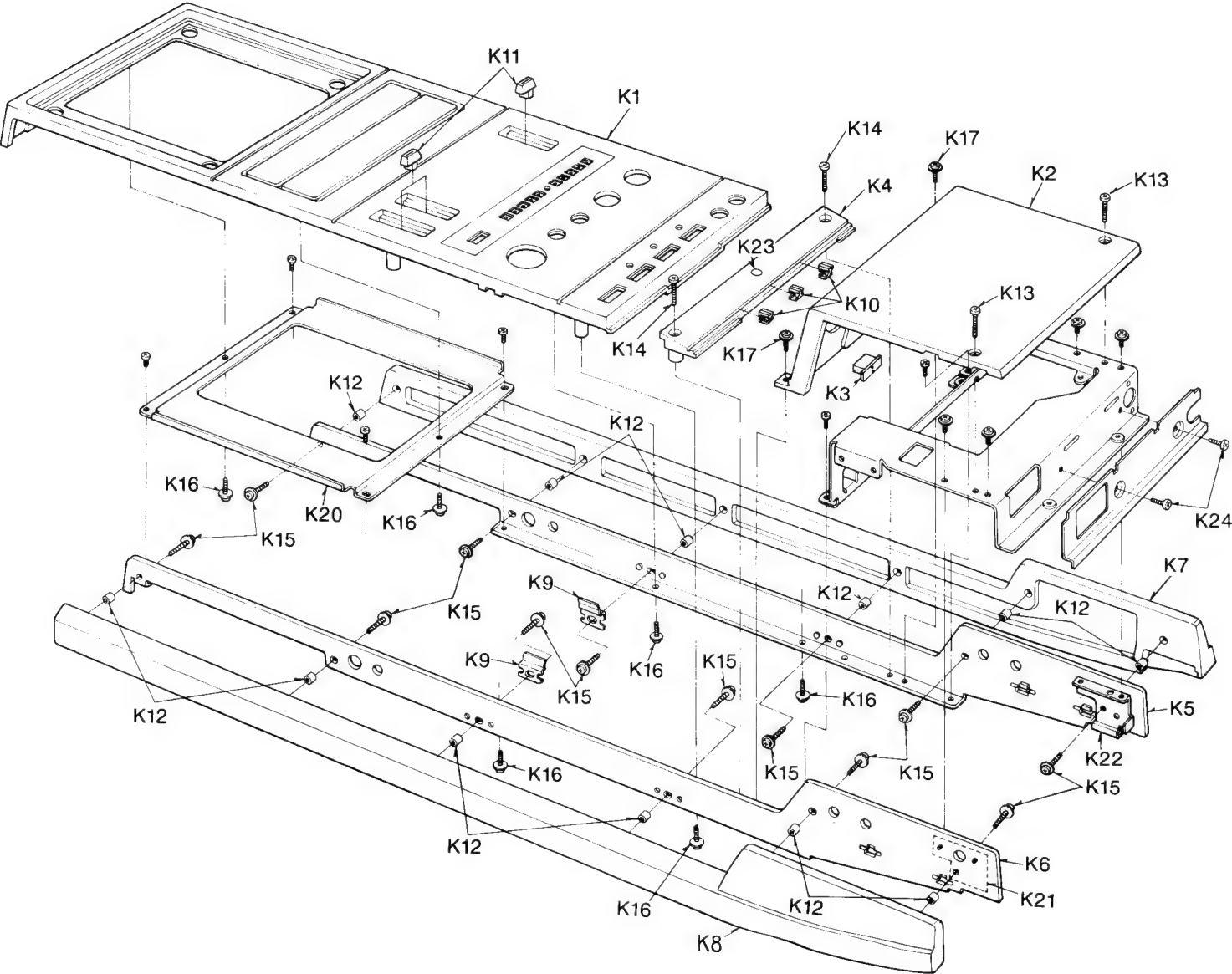


Fig. 25

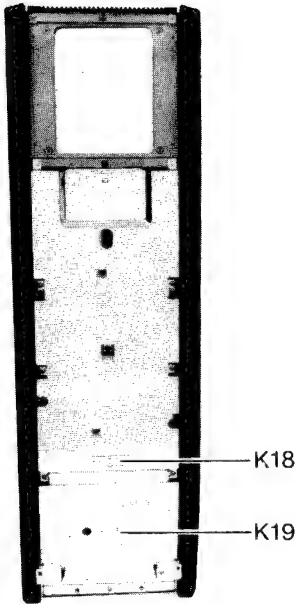


Fig. 26

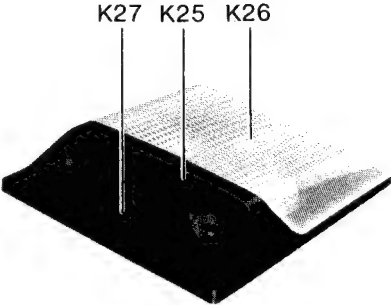


Fig. 27

CHASSIS PARTS LOCATIONS

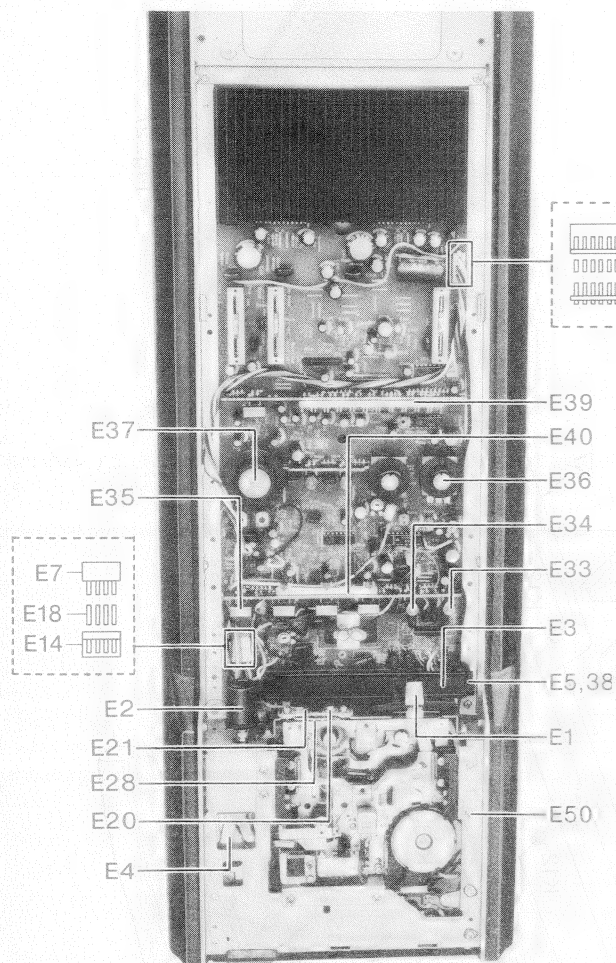


Fig. 28

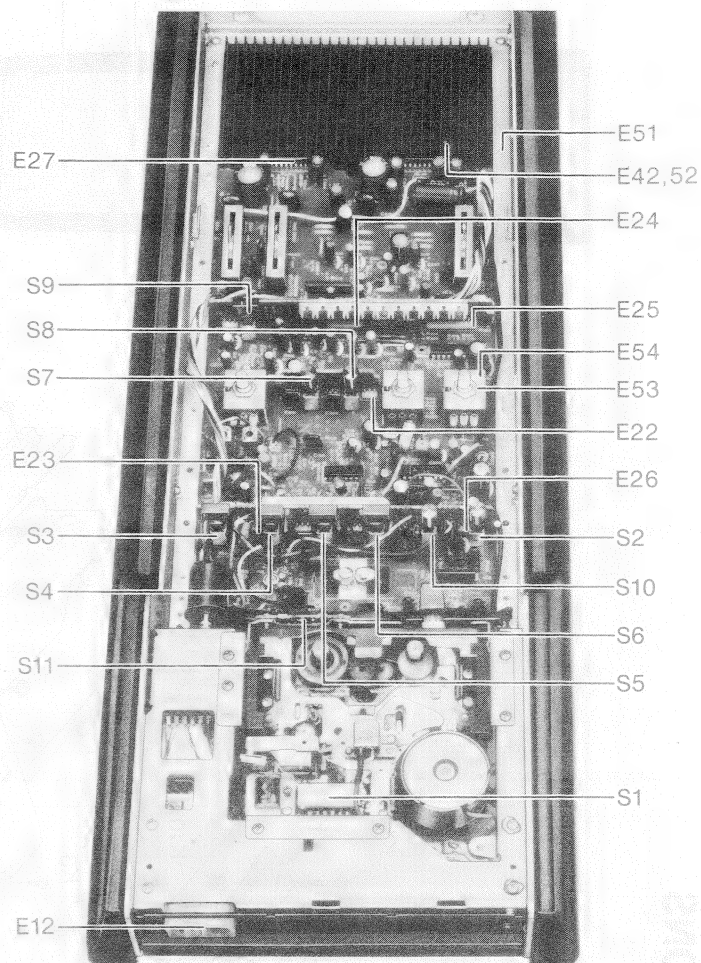


Fig. 29

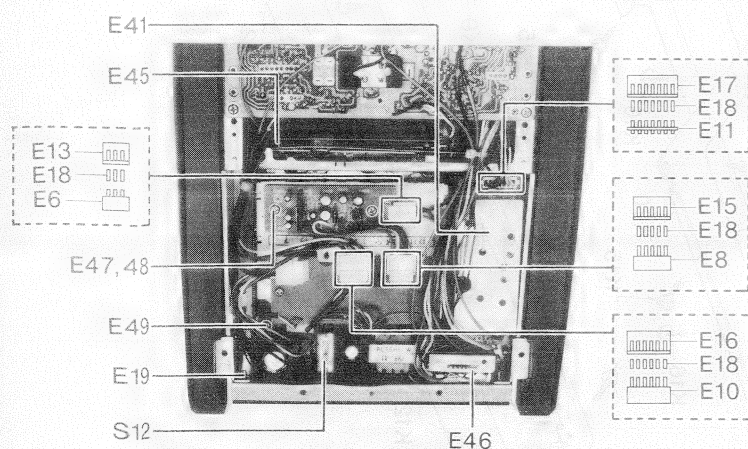


Fig. 30

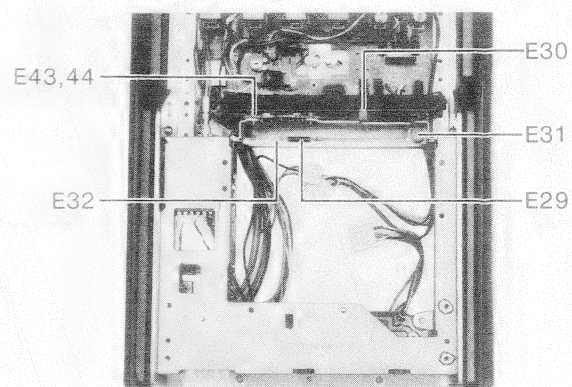


Fig. 31

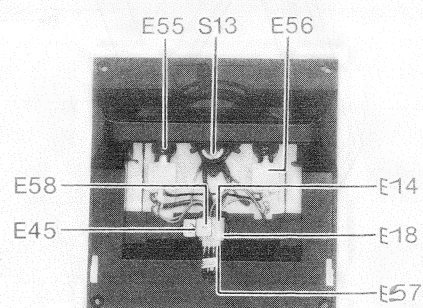


Fig. 32

REPLACEMENT PARTS LISTModel RM-310 (RD81081902C2)

NOTES: 1. Important safety notice.

Components identified by Δ mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

2. The S mark indicates service standard parts and may differ from production parts.

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|------------------|----------|-----------------------------|---------|---------|
| MECHANICAL PARTS | | | | |
| M1 | RFI4Z | Cushion | 2 | |
| M2 | RFE17Z | Cassette Guide (R) | 1 | |
| M3 | RFE18Z | Cassette Guide (L) | 1 | |
| M4 | RFE9Z | Push Arm (R) | 1 | |
| M5 | RFS37Z | Push Arm Spring | 2 | |
| M6 | RFE10Z | Push Arm (L) | 1 | |
| M7 | RFS38Z | Spring | 1 | |
| M8 | RFY1Z | FF/Rewind Lever | 1 | |
| M9 | RFY2Z | Lock Arm | 1 | |
| M10 | RFS39Z | Lock Arm Spring | 1 | |
| M12 | RFY4Y | Head Plate | 1 | |
| M13 | RFX1Z | Head Plate Spacer | 1 | |
| M14 | RJH2P1Z | Head | 1 | |
| M15 | RFS40Z | Head Spring | 1 | |
| M16 | RFX2Z | Head Spacer | 1 | |
| M17 | RFS41Z | Head Plate Spring | 1 | |
| M18 | RFX3Z | Head Plate Spacer | 1 | |
| M19 | RFS42Z | Head Plate Spring | 1 | |
| M20 | RFRI1X | Pinch Roller | 1 | |
| M21 | RFD62Y | Pinch Roller Arm Shaft | 1 | |
| M22 | RFS43X | Pinch Roller Spring | 1 | |
| M23 | RFP9003Z | Plunger Assembly | 1 | |
| M24 | RFD63Y | Switch Bracket | 1 | |
| M25 | RFA8Z | Push Switch | 1 | |
| M26 | RFY5Z | Idler Plate Assembly | 1 | |
| M27 | RFK1Z | FF Idler Assembly | 1 | |
| M28 | RFK2Z | Take Up Roller Assembly | 1 | |
| M29 | RFX4Z | Idler Plate Metal | 1 | |
| M30 | RFY6Z | FF Plate | 1 | |
| M31 | RFS44Z | Spring | 1 | |
| M32 | RFX5Z | FF Plate Spacer | 1 | |
| M33 | RFY7Z | Rewind Lever | 1 | |
| M34 | RFS45Z | Rewind Action Spring | 1 | |
| M35 | RFY8Z | Rewind Arm Assembly | 1 | |
| M36 | RFS46Z | Rewind Arm Spring | 1 | |
| M37 | RFJ1Z | Take Up Reel Table Assembly | 1 | |
| M38 | RFS47Z | Back Tension Spring | 2 | |
| M39 | RFN12Z | Washer | 2 | |
| M40 | RFJ2Z | Supply Reel Table Assembly | 1 | |
| M41 | RFT1Z | PC Board | 1 | |
| M42 | RFA9Z | Lead Switch | 1 | |
| M43 | RFD64Z | Flywheel Metal | 1 | |
| M44 | RFY4Z | Flywheel | 1 | |
| M45 | RFN18Z | Washer | 1 | |
| M46 | RFD65Z | Flywheel Retainer | 1 | |
| M47 | MMS3NF2R | Motor | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|--------------|-------------------------|---------|---------|
| M48 | RFQ5Z | Motor Pulley | 1 | |
| M49 | RFB5Z | Belt | 1 | |
| M50 | RFY9Z | Lift Plate Assembly | 1 | |
| M51 | RFS48Z | Lift Spring | 1 | |
| M52 | RFS49Z | Sub Chassis Spring | 1 | |
| M53 | RFY10Z | Arm | 4 | |
| M54 | RFY11Y | Lock Lever Assembly | 1 | |
| M55 | RFS50Y | Spring | 1 | |
| M56 | RFS51Y | Spring | 1 | |
| M57 | RFY12Z | Lock Plate Assembly | 1 | |
| M58 | RFX6Z | Lock Spacer | 1 | |
| M59 | RFD66Z | Core Bracket | 1 | |
| M60 | RFD9004Z | Core Assembly | 1 | |
| M61 | RFS52Z | Spring | 1 | |
| M62 | RFD67Z | Cord Holder | 1 | |
| M63 | XSN2+5 | Screw | 3 | S |
| M63-1 | XWA2B | Washer | 3 | S |
| M64 | XSN2+4 | Screw | 4 | S |
| M64-1 | XWA2B | Washer | 4 | S |
| M65 | XSN26+4 | Screw | 8 | S |
| M65-1 | XWA26B | Washer | 8 | S |
| M66 | XSN26+5 | Screw | 4 | S |
| M66-1 | XWA2B | Washer | 4 | S |
| M67 | XSN2+5 | Screw | 1 | S |
| M68 | XSN2+8 | Screw | 1 | S |
| M69 | XSN26+4 | Screw | 4 | S |
| M70 | XSS26+11 | Screw | 1 | |
| M71 | XUC12FT | Circlip | 2 | S |
| M72 | XUC15FT | Circlip | 2 | S |
| M73 | XUC2FT | Circlip | 4 | S |
| M74 | XUC25FT | Circlip | 4 | S |
| M75 | XUC3FT | Circlip | 2 | S |
| M76 | XWG2 | Washer | 1 | S |
| M77 | RFN19Z | Washer | 1 | |
| M78 | XSB2+2FZ | Screw | 5 | |
| M79 | XSB2+2FZ | Screw | 1 | |
| M80 | XSN26+6 | Screw | 2 | S |
| M80-1 | XWA26B | Washer | 2 | S |
| M81 | RFT2Y | Circuit Board | 1 | |
| M82 | RFX7Z | Spacer | 1 | |
| M83 | RFD68Y | Bracket | 1 | |
| M84 | XSN3+3S | Screw | 4 | |
| M85 | XTN3+6B | Screw | 2 | S |
| M86 | RFS123Z | Spring, Switch | 1 | |
| INTEGRATED CIRCUITS, TRANSISTORS AND DIODES | | | | |
| IC1 | RVIUPC1200V | IC | 1 | |
| IC2 | RVILA2101 | IC | 1 | |
| IC3 | AN362L | IC | 1 | |
| IC4,5 | RVILB1416S | IC | 2 | |
| IC6 | RVIM51521L | IC | 1 | |
| IC7 | RVIBA335C | IC | 1 | |
| IC8 | AN6550G | IC | 1 | |
| IC9,10 | RVIUPC1185HE | IC | 2 | |
| IC11 | RVILA1130 | IC | 1 | |
| IC12 | RVIUPC78L08 | IC | 1 | |
| Q1 | 2SC2295 | Transistor (Si) | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|------------------------|--------------|-----------------------------|---------|---------|
| Q2,3 | 2SB709 | Transistor (Ge) | 2 | |
| Q4~9,17 | 2SD601 | " (Si) | 7 | |
| Q10 | 2SC1847 | " (Si) | 1 | |
| Q11~16 | 2SC1622AD17 | " (Si) | 6 | |
| Q18 | 2SC2001 | " (Si) | 1 | |
| Q19 | 2SA952 | " (Ge) | 1 | |
| Q30 | 2SK49 | " (Si) | 1 | |
| Q31 | 2SA564 | " (Ge) | 1 | |
| Q32 | 2SC829 | " (Si) | 1 | |
| D2,25,26,30,31,32,35 | MA161 | Diode (Si) | 7 | S |
| D3,4,5,8,13,14,34 | LN222RP | LED (Ga) | 7 | |
| D6 | LN217RP | " (Ga) | 1 | |
| D7 | RVDRD12FB | Diode (Si) | 1 | S |
| D9~12,15,16~18,33 | LN322GP | LED (Ga) | 9 | |
| D19 | RVDRD10EB | Diode (Si) | 1 | |
| D20~22 | SM112 | " (Si) | 3 | S |
| D23 | RVDDS150A | " (Si) | 1 | |
| D1,2 | SM112 | DOME LAMP Diode (Si) | 2 | S |
| COILS AND TRANSFORMERS | | | | |
| L701 | RLT6H6 | Coil, Chock | 1 | |
| T1 | RLQM3301 | Coil, IF | 1 | |
| T2 | RLI4M101 | IFT, FM | 1 | S |
| T801 | RLO2M20 | Oscillator Coil, AM | 1 | |
| T802 | RLI7W104P | IFT, AM | 1 | S |
| T803 | RLI2M204 | " " | 1 | S |
| VARIABLE RESISTORS | | | | |
| VR1,2 | EWKHB011B54 | Variable Resistor, 50kΩ (B) | 1 | |
| VR3~6 | EVBV18D10D15 | " 100kΩ (D) | 2 | |
| VR7,8 | EVBV17D10B15 | " 100kΩ (B) | 1 | |
| VR9 | EVHRQA518G54 | " 50kΩ (G) | 1 | |
| VR10,11 | EWJ4EA011B14 | " 10kΩ (B) | 1 | |
| VR12,207 | EVNM4AA00B53 | " 5kΩ (B) | 2 | S |
| VR21 | EVNK4AA00B14 | " 10kΩ (B) | 1 | S |
| VR202 | EVNM4AA00B24 | " 20kΩ (B) | 1 | |
| VARIABLE CAPACITORS | | | | |
| CT801,804 | ECV1ZW90X32 | Trimmer Capacitor | 2 | |
| CT802,803 | ECV1ZW60X53N | " | 2 | |
| CERAMIC FILTERS | | | | |
| CF1,2 | RVFGF10S12FR | Ceramic Filter | 2 | |
| COMPONENT COMBINATIONS | | | | |
| Z1 | RXALGYF064 | Component Combination | 1 | |
| Z2 | RJE74Z | " | 1 | |
| THERMISTORS | | | | |
| Th1 | RRT202 | Thermistor | 1 | |
| Th2,3 | RRT302 | " | 2 | |
| SWITCHES | | | | |
| S1 | RFA8Z | Switch, Tape Deck Power | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|------------------------------|------------|------------------------------|---------|---------|
| S2~10 | RSH2B09Y | Switch, Power, Selector etc. | 9 | |
| S12 | RSL27Y | " Power | 1 | |
| S13 | RWSML610M | DOME LAMP Switch, Lamp | 1 | |
| RESISTORS (Value is in OHMS) | | | | |
| R1 | RRD18XK331 | 330 1/8W Chip | 1 | |
| R2 | RRD18XK470 | 47 " " | 1 | |
| R3 | RRD18XK471 | 470 " " | 1 | |
| R4 | RRD18XK152 | 1.5 k " " | 1 | |
| R5 | RRD18XK151 | 150 " " | 1 | |
| R6 | RRD18XK471 | 470 " " | 1 | |
| R9 | RRD18XK154 | 150 k " " | 1 | |
| R10 | RRD18XK102 | 1 k " " | 1 | |
| R11 | RRD18XK222 | 2.2 k " " | 1 | |
| R12 | RRD18XK222 | 2.2 k " " | 1 | |
| R13 | RRD18XK103 | 10 k " " | 1 | |
| R14 | RRD18XK103 | 10 k " " | 1 | |
| R15 | RRD18XK102 | 1 k " " | 1 | |
| R16 | RRD18XK102 | 1 k " " | 1 | |
| R17 | RRD18XK474 | 470 k " " | 1 | |
| R18 | RRD18XK562 | 5.6 k " " | 1 | |
| R19 | RRD18XK331 | 330 " " | 1 | |
| R20 | RRD18XK334 | 330 k " " | 1 | |
| R22 | RRD18XK332 | 3.3 k " " | 1 | |
| R23 | RRD18XK101 | 100 " " | 1 | |
| R24 | RRD18XK223 | 22 k " " | 1 | |
| R25 | RRD18XK223 | 22 k " " | 1 | |
| R26 | RRD18XK103 | 10 k " " | 1 | |
| R27 | RRD18XK223 | 22 k " " | 1 | |
| R28 | RRD18XK102 | 1 k " " | 1 | |
| R29 | RRD18XK223 | 22 k " " | 1 | |
| R30 | RRD18XK223 | 22 k " " | 1 | |
| R31 | RRD18XK683 | 68 k " " | 1 | |
| R32 | RRD18XK472 | 4.7 k " " | 1 | |
| R33 | RRD18XK334 | 330 k " " | 1 | |
| R34 | RRD18XK331 | 330 " " | 1 | |
| R35 | ERD25TJ102 | 1 k 1/4W Carbon | 1 | S |
| R36 | ERD25TJ101 | 100 " " | 1 | S |
| R37 | ERD25TJ332 | 3.3 k " " | 1 | S |
| R38 | ERD25TJ332 | 3.3 k " " | 1 | S |
| R39 | ERD25TJ332 | 3.3 k " " | 1 | S |
| R41 | ERD25TJ562 | 5.6 k " " | 1 | S |
| R101 | RRD18XK103 | 10 k 1/8W Chip | 1 | |
| R102 | RRD18XK222 | 2.2 k " " | 1 | |
| R103 | RRD18XK222 | 2.2 k " " | 1 | |
| R104 | RRD18XK272 | 2.7 k " " | 1 | |
| R105 | RRD18XK223 | 22 k " " | 1 | |
| R106 | RRD18XK472 | 4.7 k " " | 1 | |
| R107 | RRD18XK472 | 4.7 k " " | 1 | |
| R108 | RRD18XK472 | 4.7 k " " | 1 | |
| R109 | RRD18XK472 | 4.7 k " " | 1 | |
| R110 | RRD18XK472 | 4.7 k " " | 1 | |
| R111 | RRD18XK222 | 2.2 k " " | 1 | |
| R112 | RRD18XK682 | 6.8 k " " | 1 | |
| R113 | RRD18XK102 | 1 k " " | 1 | |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|----------|------------|-------------------------|------|--------|---------|---------|
| R114 | RRD18XK473 | 47 k | 1/8W | Chip | 1 | S |
| R116 | ERD25TJ682 | 6.8 k | 1/4W | Carbon | 1 | |
| R117 | RRD18XK101 | 100 | 1/8W | Chip | 1 | |
| R118 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R119 | RRD18XK104 | 100 k | " | " | 1 | |
| R201 | RRD18XK470 | 47 | " | " | 1 | |
| R203 | RRD18XK153 | 15 k | " | " | 1 | |
| R204 | RRD18XK102 | 1 k | " | " | 1 | |
| R205 | RRD18XK473 | 47 k | " | " | 1 | |
| R206 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R210 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R211 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R213 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R214 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R215 | RRD18XK181 | 180 | " | " | 1 | |
| R217 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R218 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R219 | RRD18XK102 | 1 k | " | " | 1 | |
| R220 | ERD25TJ103 | 10 k | 1/4W | Carbon | 1 | |
| R221 | ERD25TJ103 | 10 k | " | " | 1 | S |
| R222 | RRD18XK472 | 4.7 k | 1/8W | Chip | 1 | |
| R301 | RRD18XK103 | 10 k | " | " | 1 | |
| R302 | RRD18XK103 | 10 k | " | " | 1 | |
| R303 | RRD18XK101 | 100 | " | " | 1 | |
| R304 | RRD18XK470 | 47 | " | " | 1 | |
| R305 | RRD18XK470 | 47 | " | " | 1 | |
| R306 | RRD18XK470 | 47 | " | " | 1 | |
| R307 | RRD18XK470 | 47 | " | " | 1 | |
| R308 | RRD18XK103 | 10 k | " | " | 1 | |
| R309 | RRD18XK153 | 15 k | " | " | 1 | |
| R310 | RRD18XK334 | 330 k | " | " | 1 | |
| R311 | RRD18XK102 | 1 k | " | " | 1 | |
| R312 | RRD18XK153 | 15 k | " | " | 1 | |
| R313 | RRD18XK103 | 10 k | " | " | 1 | |
| R314 | RRD18XK334 | 330 k | " | " | 1 | |
| R315 | RRD18XK101 | 100 | " | " | 1 | |
| R316 | RRD18XK470 | 47 | " | " | 1 | |
| R317 | RRD18XK470 | 47 | " | " | 1 | |
| R318 | RRD18XK470 | 47 | " | " | 1 | |
| R319 | RRD18XK470 | 47 | " | " | 1 | |
| R320 | RRD18XK103 | 10 k | " | " | 1 | S |
| R321 | RRD18XK103 | 10 k | " | " | 1 | |
| R322 | RRD18XK102 | 1 k | " | " | 1 | |
| R323 | RRD18XK103 | 10 k | " | " | 1 | |
| R324 | ERD25TJ102 | 1 k | 1/4W | Carbon | 1 | |
| R401 | RRD18XK473 | 47 k | 1/8W | Chip | 1 | |
| R402 | RRD18XK333 | 33 k | " | " | 1 | |
| R403 | RRD18XK151 | 150 | " | " | 1 | |
| R404 | RRD18XK153 | 15 k | " | " | 1 | |
| R405 | RRD18XK104 | 100 k | " | " | 1 | |
| R406 | RRD18XK474 | 470 k | " | " | 1 | |
| R407 | RRD18XK104 | 100 k | " | " | 1 | |
| R408 | RRD18XK151 | 150 | " | " | 1 | |
| R409 | RRD18XK333 | 33 k | " | " | 1 | |
| R410 | RRD18XK153 | 15 k | " | " | 1 | |
| R411 | RRD18XK474 | 470 k | " | " | 1 | |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|----------|------------|-------------------------|------|------|---------|---------|
| R412 | RRD18XK472 | 4.7 k | 1/8W | Chip | 1 | |
| R413 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R414 | RRD18XK102 | 1 k | " | " | 1 | |
| R415 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R416 | RRD18XK473 | 47 k | " | " | 1 | |
| R421 | RRD18XK224 | 220 k | " | " | 1 | |
| R423 | RRD18XK102 | 1 k | " | " | 1 | |
| R424 | RRD18XK103 | 10 k | " | " | 1 | |
| R425 | RRD18XK102 | 1 k | " | " | 1 | |
| R426 | RRD18XK221 | 220 | " | " | 1 | |
| R427 | RRD18XK102 | 1 k | " | " | 1 | |
| R428 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R429 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R501 | RRD18XK682 | 6.8 k | " | " | 1 | |
| R502 | RRD18XK682 | 6.8 k | " | " | 1 | |
| R503 | RRD18XK474 | 470 k | " | " | 1 | |
| R504 | RRD18XK474 | 470 k | " | " | 1 | |
| R505 | RRD18XK471 | 470 | " | " | 1 | |
| R506 | RRD18XK471 | 470 | " | " | 1 | |
| R507 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R508 | RRD18XK472 | 4.7 k | " | " | 1 | |
| R509 | RRD18XK222 | 2.2 k | " | " | 1 | |
| R510 | RRD18XK222 | 2.2 k | " | " | 1 | |
| R511 | RRD18XK223 | 22 k | " | " | 1 | |
| R512 | RRD18XK223 | 22 k | " | " | 1 | |
| R513 | RRD18XK474 | 470 k | " | " | 1 | |
| R514 | RRD18XK474 | 470 k | " | " | 1 | |
| R515 | RRD18XK221 | 220 | " | " | 1 | |
| R516 | RRD18XK221 | 220 | " | " | 1 | |
| R517 | RRD18XK682 | 6.8 k | " | " | 1 | |
| R518 | RRD18XK682 | 6.8 k | " | " | 1 | |
| R519 | RRD18XK104 | 100 k | " | " | 1 | |
| R520 | RRD18XK104 | 100 k | " | " | 1 | |
| R521 | RRD18XK221 | 220 | " | " | 1 | |
| R522 | RRD18XK103 | 10 k | " | " | 1 | |
| R523 | RRD18XK103 | 10 k | " | " | 1 | |
| R524 | RRD18XK105 | 1 M | " | " | 1 | |
| R525 | RRD18XK105 | 1 M | " | " | 1 | |
| R526 | RRD18XK103 | 10 k | " | " | 1 | |
| R527 | RRD18XK103 | 10 k | " | " | 1 | |
| R528 | RRD18XK105 | 1 M | " | " | 1 | |
| R529 | RRD18XK105 | 1 M | " | " | 1 | |
| R532 | RRD18XK103 | 10 k | " | " | 1 | |
| R533 | RRD18XK103 | 10 k | " | " | 1 | |
| R534 | RRD18XK103 | 10 k | " | " | 1 | |
| R537 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R538 | RRD18XK332 | 3.3 k | " | " | 1 | |
| R539 | RRD18XK273 | 27 k | " | " | 1 | |
| R540 | RRD18XK273 | 27 k | " | " | 1 | |
| R541 | RRD18XK273 | 27 k | " | " | 1 | |
| R542 | RRD18XK273 | 27 k | " | " | 1 | |
| R543 | RRD18XK474 | 470 k | " | " | 1 | |
| R544 | RRD18XK474 | 470 k | " | " | 1 | |
| R545 | RRD18XK102 | 1 k | " | " | 1 | |
| R546 | RRD18XK102 | 1 k | " | " | 1 | |
| R547 | RRD18XK102 | 1 k | " | " | 1 | |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|--|-------------|-------------------------|------|--------------|---------|---------|
| R548 | RRD18XK102 | 1 k | 1/8W | Chip | 1 | |
| R549 | RRD18XK221 | 220 | " | " | 1 | |
| R550 | RRD18XK221 | 220 | " | " | 1 | |
| R551 | RRD18XK473 | 47 k | " | " | 1 | |
| R552 | RRD18XK473 | 47 k | " | " | 1 | |
| R553 | RRD18XK333 | 33 k | " | " | 1 | |
| R554 | RRD18XK333 | 33 k | " | " | 1 | |
| R601 | ERD25TJ1RO | 1 | 1/4W | Carbon | 1 | S |
| R602 | ERD25TJ1RO | 1 | " | " | 1 | S |
| R603 | ERD25TJ101 | 100 | " | " | 1 | S |
| R604 | ERD25TJ101 | 100 | " | " | 1 | S |
| R605 | ERD25TJ101 | 100 | " | " | 1 | S |
| R606 | ERD25TJ101 | 100 | " | " | 1 | S |
| R607 | ERD25TJ1RO | 1 | " | " | 1 | S |
| R608 | ERD25TJ1RO | 1 | " | " | 1 | S |
| R701 | ERX1ANJP2R2 | 2.2 | 1W | Metal | 1 | |
| R801 | RRD18XK104 | 100 k | 1/8W | Chip | 1 | |
| R802 | RRD18XK102 | 1 k | " | " | 1 | |
| R803 | RRD18XK334 | 330 k | " | " | 1 | |
| R804 | RRD18XK153 | 15 k | " | " | 1 | |
| R805 | RRD18XK101 | 100 | " | " | 1 | |
| R806 | RRD18XK103 | 10 k | " | " | 1 | |
| R807 | RRD18XK103 | 10 k | " | " | 1 | |
| R808 | RRD18XK473 | 47 k | " | " | 1 | |
| R809 | RRD18XK101 | 100 | " | " | 1 | |
| R810 | RRD18XK680 | 68 | " | " | 1 | |
| R811 | RRD18XK101 | 100 | " | " | 1 | |
| R812 | RRD18XK102 | 1 k | " | " | 1 | |
| R813 | RRD18XK103 | 10 k | " | " | 1 | |
| R814 | RRD18XK103 | 10 k | " | " | 1 | |
| R815 | RRD18XK333 | 33 k | " | " | 1 | |
| R816 | RRD18XK152 | 1.5 k | " | " | 1 | |
| R817 | RRD18XK222 | 2.2 k | " | " | 1 | |
| R818 | RRD18XK102 | 1 k | " | " | 1 | |
| R819 | RRD18XK683 | 68 k | " | " | 1 | |
| CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS) | | | | | | |
| C1 | ECEA1AS221 | 220 | 10V | Electrolytic | 1 | S |
| C2 | ECUX1H223ZF | 0.022 | 50V | Chip | 1 | |
| C3 | ECUX1H223ZF | 0.022 | " | " | 1 | |
| C4 | ECUX1H223ZF | 0.022 | " | " | 1 | |
| C5 | ECUX1H223ZF | 0.022 | " | " | 1 | |
| C6 | ECUX1H223ZF | 0.022 | " | " | 1 | |
| C7 | ECEA25Z4R7 | 4.7 | 25V | Electrolytic | 1 | S |
| C8 | ECUX1H102MD | 0.001 | 50V | Chip | 1 | |
| C9 | ECEA1ES470 | 47 | 25V | Electrolytic | 1 | S |
| C10 | ECUX1H223ZF | 0.022 | 50V | Chip | 1 | |
| C11 | ECUX1H333ZF | 0.033 | " | " | 1 | |
| C12 | ECUX1H221KD | 220 p | " | " | 1 | |
| C13 | ECEA50Z1 | 1 | " | Electrolytic | 1 | S |
| C14 | ECEA25Z4R7 | 4.7 | 25V | " | 1 | S |
| C15 | ECUX1H223ZF | 0.022 | 50V | Chip | 1 | |
| C16 | ECEA50Z1 | 2.2 | 25V | Electrolytic | 1 | S |
| C18 | ECUX1H153MD | 0.015 | 50V | Chip | 1 | |
| C19 | ECUX1H333ZF | 0.033 | " | " | 1 | |
| C20 | ECUX1H103MD | 0.01 | " | " | 1 | |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|----------|-------------|-------------------------|-----|--------------|---------|---------|
| C21 | ECQG05683MZ | 0.068 | 50V | Polyester | 1 | |
| C22 | ECKD1H102MD | 0.001 | " | Ceramic | 1 | |
| C23 | ECCD1H150KC | 15 p | " | " | 1 | |
| C101 | ECUX1H221KD | 220 p | " | Chip | 1 | |
| C102 | ECEA50Z1 | 1 | " | Electrolytic | 1 | S |
| C103 | ECQG05473MZ | 0.047 | " | Polyester | 1 | |
| C104 | ECUX1H681KD | 680 p | " | Chip | 1 | |
| C105 | ECUX1H681KD | 680 p | " | " | 1 | |
| C106 | ECQS1H122KZ | 1200 p | " | Styrol | 1 | |
| C107 | ECUX1H680KC | 68 p | " | Chip | 1 | |
| C108 | ECUX1H682MD | 0.0068 | " | " | 1 | |
| C109 | ECEA50Z2R2 | 2.2 | " | Electrolytic | 1 | S |
| C111 | ECUX1H271KD | 270 p | " | Chip | 1 | |
| C112 | ECUX1H271KD | 270 p | " | " | 1 | |
| C113 | ECUX1H271KD | 270 p | " | " | 1 | |
| C114 | ECUX1H103MD | 0.01 | " | " | 1 | |
| C115 | ECEA50Z1 | 1 | " | Electrolytic | 1 | S |
| C116 | ECUX1H222MD | 0.0022 | " | Chip | 1 | |
| C117 | ECKD1H222MD | 0.0022 | " | Ceramic | 1 | |
| C118 | ECEA1ES101 | 100 | 25V | Electrolytic | 1 | S |
| C201 | ECEA1CS221 | 220 | 16V | " | 1 | S |
| C202 | ECQG05473MZ | 0.047 | 50V | Polyester | 1 | |
| C203 | ECQS05471JZ | 470 p | " | Styrol | 1 | |
| C204 | ECQG05333MZ | 0.033 | " | Polyester | 1 | |
| C205 | ECEA50ZR22 | 0.22 | " | Electrolytic | 1 | S |
| C206 | ECEA50ZR47 | 0.47 | " | " | 1 | S |
| C207 | ECEA50Z1 | 1 | " | " | 1 | S |
| C208 | ECQG05333MZ | 0.033 | " | Polyester | 1 | |
| C209 | ECEA50ZR47 | 0.47 | " | Electrolytic | 1 | S |
| C210 | ECEA50ZR47 | 0.47 | " | " | 1 | S |
| C212 | ECEA1ES470 | 47 | 25V | " | 1 | S |
| C213 | ECEA1CSS471 | 470 | 16V | " | 1 | S |
| C214 | ECEA50ZR1 | 0.1 | 50V | " | 1 | S |
| C215 | ECEA50Z1 | 1 | " | " | 1 | S |
| C301 | ECEA1HS100 | 10 | " | " | 1 | S |
| C302 | ECEA1HS100 | 10 | " | " | 1 | S |
| C303 | ECEA1HS100 | 10 | " | " | 1 | S |
| C304 | ECEA1HS100 | 10 | " | " | 1 | S |
| C401 | ECUX1H102MD | 0.001 | " | Chip | 1 | |
| C402 | ECEA1HS100 | 10 | " | Electrolytic | 1 | S |
| C403 | ECEA1AS470 | 47 | 10V | " | 1 | S |
| C404 | ECEA1AS470 | 47 | " | " | 1 | S |
| C406 | ECUX1H682MD | 0.0068 | 50V | Chip | 1 | |
| C407 | ECEA1AS470 | 47 | 10V | Electrolytic | 1 | S |
| C408 | ECEA1HS100 | 10 | 50V | " | 1 | S |
| C409 | ECEA1AS101 | 100 | 10V | " | 1 | S |
| C411 | ECUX1H682MD | 0.0068 | 50V | Chip | 1 | |
| C412 | ECUX1H102MD | 0.001 | " | " | 1 | |
| C413 | ECUX1H221KD | 220 p | " | " | 1 | |
| C414 | ECUX1H221KD | 220 p | " | " | 1 | |
| C415 | ECEA50Z1 | 1 | " | Electrolytic | 1 | S |
| C416 | ECEA50Z1 | 1 | " | " | 1 | S |
| C421 | ECUX1H333ZF | 0.033 | " | Chip | 1 | |
| C422 | ECEA1HK010 | 1 | " | Electrolytic | 1 | |
| C423 | ECEA1EK4R7 | 4.7 | 25V | " | 1 | |
| C424 | ECEA1HK3R3 | 3.3 | 50V | " | 1 | |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|----------|-------------|-------------------------|-----|--------------|---------|---------|
| C425 | ECEA1HK2R2 | 2.2 | 50V | Electrolytic | 1 | |
| C426 | ECEA1CK470 | 47 | 16V | " | 1 | |
| C427 | ECEA1AK330 | 33 | 10V | " | 1 | |
| C428 | ECEA1AK470 | 47 | " | " | 1 | |
| C429 | ECEA1CK470 | 47 | 16V | " | 1 | |
| C430 | ECEA1ES470 | 47 | 25V | " | 1 | S |
| C501 | ECQG05473MZ | 0.047 | 50V | Polyester | 1 | |
| C502 | ECQG05473MZ | 0.047 | " | " | 1 | |
| C503 | ECEA50Z1 | 1 | " | Electrolytic | 1 | S |
| C504 | ECEA50Z1 | 1 | " | " | 1 | S |
| C505 | ECUX1H102ZF | 0.001 | " | Chip | 1 | |
| C506 | ECUX1H102ZF | 0.001 | " | " | 1 | |
| C507 | ECEA1HS100 | 10 | " | Electrolytic | 1 | S |
| C508 | ECEA1HS100 | 10 | " | " | 1 | S |
| C509 | ECUX1H332MD | 0.0033 | " | Chip | 1 | |
| C510 | ECUX1H332MD | 0.0033 | " | " | 1 | |
| C511 | ECQG05473MZ | 0.047 | " | Polyester | 1 | |
| C512 | ECQG05473MZ | 0.047 | " | " | 1 | |
| C513 | ECUX1H103MD | 0.01 | " | Chip | 1 | |
| C514 | ECUX1H103MD | 0.01 | " | " | 1 | |
| C515 | ECEA50ZR22 | 0.22 | " | Electrolytic | 1 | S |
| C516 | ECEA50ZR22 | 0.22 | " | " | 1 | S |
| C517 | ECEA50Z1 | 1 | " | " | 1 | S |
| C518 | ECEA50Z1 | 1 | " | " | 1 | S |
| C519 | ECEA1HS100 | 10 | " | " | 1 | S |
| C520 | ECEA1HS100 | 10 | " | " | 1 | S |
| C521 | ECEA1AS221 | 220 | 10V | " | 1 | S |
| C522 | ECUX1H153MD | 0.015 | 50V | Chip | 1 | |
| C523 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C524 | ECEA1CSS471 | 470 | 16V | Electrolytic | 1 | S |
| C525 | ECQG05223MZ | 0.022 | 50V | Polyester | 1 | |
| C526 | ECQG05223MZ | 0.022 | " | " | 1 | |
| C527 | ECUX1H222MD | 0.0022 | " | Chip | 1 | |
| C528 | ECUX1H222MD | 0.0022 | " | " | 1 | |
| C529 | ECEA1CS330 | 33 | 16V | Electrolytic | 1 | S |
| C530 | ECEA1HS100 | 10 | 50V | " | 1 | S |
| C531 | ECEA1HS100 | 10 | " | " | 1 | S |
| C532 | ECEA50Z1 | 1 | " | " | 1 | S |
| C533 | ECEA50Z1 | 1 | " | " | 1 | S |
| C534 | ECEA50ZR1 | 0.1 | " | " | 1 | S |
| C535 | ECEA50ZR1 | 0.1 | " | " | 1 | S |
| C536 | ECEA50MR33 | 0.33 | " | " | 1 | S |
| C537 | ECEA50MR33 | 0.33 | " | " | 1 | S |
| C538 | ECEA1AS471 | 470 | 10V | " | 1 | S |
| C539 | ECEA50ZR1 | 0.1 | 50V | " | 1 | S |
| C540 | ECEA50ZR1 | 0.1 | " | " | 1 | S |
| C601 | ECQG05104MZ | 0.1 | 50V | Polyester | 1 | |
| C602 | ECQG05104MZ | 0.1 | " | " | 1 | |
| C603 | ECEA1AS221 | 220 | 10V | Electrolytic | 1 | S |
| C604 | ECEA1AS221 | 220 | " | " | 1 | S |
| C607 | ECEA1AS221 | 220 | " | " | 1 | S |
| C608 | ECEA1AS221 | 220 | " | " | 1 | S |
| C609 | ECEA1AS221 | 220 | " | " | 1 | S |
| C610 | ECEA1AS221 | 220 | " | " | 1 | S |
| C611 | ECEA1CSS102 | 1000 | 16V | " | 1 | S |
| C612 | ECEA1CSS102 | 1000 | " | " | 1 | S |

| Ref. No. | Part No. | Part Name & Description | | | Per Set | Remarks |
|---------------|-------------|---------------------------|-----|--------------|---------|---------|
| C613 | ECEA1AS221 | 220 | 10V | Electrolytic | 1 | S |
| C614 | ECEA1AS221 | 220 | " | " | 1 | S |
| C615 | ECQG05104MZ | 0.1 | 50V | Polyester | 1 | |
| C616 | ECQG05104MZ | 0.1 | " | " | 1 | |
| C617 | ECEA1CS222 | 2200 | 16V | Electrolytic | 1 | S |
| C618 | ECUX1H152MD | 0.0015 | 50V | Chip | 1 | |
| C619 | ECUX1H152MD | 0.0015 | " | " | 1 | |
| C620 | ECUX1H152MD | 0.0015 | " | " | 1 | |
| C621 | ECUX1H152MD | 0.0015 | " | " | 1 | |
| C701 | ECEA1CS222 | 2200 | 16V | Electrolytic | 1 | S |
| C702 | ECEA1CS222 | 2200 | " | " | 1 | S |
| C801 | ECUX1H330KC | 33 p | 50V | Chip | 1 | |
| C802 | ECUX1H331KD | 330 p | " | " | 1 | |
| C803 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C804 | ECUX1H221JD | 220 p | " | " | 1 | |
| C805 | ECUX1H103MD | 0.01 | " | " | 1 | |
| C806 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C807 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C808 | ECEA1AK220 | 22 | 10V | Electrolytic | 1 | |
| C809 | ECUX1H153MD | 0.015 | 50V | Chip | 1 | |
| C810 | ECUX1H333ZF | 0.033 | " | " | 1 | |
| C811 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C812 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C813 | ECEA1HK4R7 | 4.7 | " | Electrolytic | 1 | |
| C814 | ECUX1H680JC | 680 p | " | Chip | 1 | |
| C816 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C817 | ECEA1AK330 | 33 | 10V | Electrolytic | 1 | |
| C818 | ECUX1H153MD | 0.015 | 50V | Chip | 1 | |
| C819 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C821 | ECUX1H151JD | 150 p | " | " | 1 | |
| C822 | ECUX1H681KD | 680 p | " | " | 1 | |
| C823 | ECUX1H681KD | 680 p | " | " | 1 | |
| C824 | ECUX1H102MD | 0.001 | " | " | 1 | |
| C825 | ECUX1H681KD | 680 p | " | " | 1 | |
| C826 | ECEA1AK470 | 47 | 10V | Electrolytic | 1 | |
| C827 | ECEA1AK470 | 47 | " | " | 1 | |
| C828 | ECUX1H153MD | 0.015 | 50V | Chip | 1 | |
| C830 | ECUX1H153MD | 0.015 | " | " | 1 | |
| C831 | ECEA1AK220 | 22 | 10V | Electrolytic | 1 | |
| C832 | ECUX1H330KC | 33 p | 50V | Chip | 1 | |
| C833 | ECEA25N2R2 | 2.2 | 25V | Electrolytic | 1 | |
| C834 | ECUX1H472MD | 0.0047 | 50V | Chip | 1 | |
| C835 | ECEA1CK470 | 47 | 16V | Electrolytic | 1 | |
| C836 | ECUX1H333ZF | 0.033 | 50V | Chip | 1 | |
| C837 | ECUX1H103MD | 0.01 | " | " | 1 | |
| C838 | ECUX1H471KD | 470 p | " | " | 1 | |
| C839 | ECUX1H333ZF | 0.033 | " | " | 1 | |
| C840 | ECCD1H121JC | 120 p | " | Ceramic | 1 | |
| C841 | ECCD1H820K | 82 p | " | " | 1 | |
| CABINET PARTS | | | | | | |
| K1 | RYP2M310M | Panel Assembly | | | 1 | |
| K2 | RYPLM310XG | Deck Cover Assembly | | | 1 | |
| K3 | RYT1M300N | Eject Button Assembly | | | 1 | |
| K4 | RGP575Y | Panel, Ant. Trim Mark | | | 1 | |
| K5 | RGX1008Z | Cabinet Frame, Right Side | | | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|-------------------------|------------|--|---------|---------|
| K6 | RGX1008Y | Cabinet Frame, Left Side | 1 | |
| K7 | RGX1097Z | Ornament, Right Side | 1 | |
| K8 | RGX1097Y | " Left Side | 1 | |
| K9 | RUL596Z | Bracket, Panel | 2 | |
| K10 | RDP208Z | Point, Dial | 3 | |
| K11 | RBD63Z | Knob, Equalizer | 3 | |
| K12 | RHM114Z | Spacer, Cabinet Frame | 12 | |
| K13 | XTB3+10CFZ | Screw, Deck Cover M'tg | 2 | |
| K14 | XTB3+16CFZ | " Panel (Ant. Trim) M'tg | 2 | |
| K15 | XTW3+12F | " Cabinet Frame M'tg | 12 | |
| K16 | XTW3+12FR | Red Screw, Panel M'tg | 7 | |
| K17 | XTW3+8FR | " Deck Cover M'tg | 2 | |
| K18 | RGT764W8 | Name Plate | 1 | |
| K19 | RQT4241X | Caution Sheet | 1 | |
| K20 | RUA388Z | Rear Mounting Bracket | 1 | |
| K21 | RUL595Z | Bracket, Cabinet Frame, Left | 1 | |
| K22 | RUL595Y | " " Right | 1 | |
| K23 | RHG307A | Cover, Ant. Trim | 1 | |
| K24 | XTB3+8BFZ | Screw, Deck Bracket M'tg | 2 | |
| K25 | RYMLM610M7 | DOVE LAMP Cabinet Assembly, Dome Lamp | 1 | |
| K26 | RGX1039Z | Lamp Cover | 1 | |
| K27 | RBD107Z | Knob, Lamp Switch | 1 | |
| ELECTRICAL PARTS | | | | |
| E1 | RYT2M300N | Button Assembly, FF, REW | 1 | |
| E2 | RBN539Z | Knob, Tuning | 1 | |
| E3 | RYEM310M | Dial Back Plate Assembly | 1 | |
| E4 | RSD18Z | FM Tuner | 1 | |
| E5 | XAMR50S400 | Pilot Lamp, 12V, 0.03A | 2 | |
| E6 | RJP133Z | Plug, 3 Pin, CP22 | 1 | |
| E7 | RJP134Z | " 4 Pin, CN2 | 1 | |
| E8 | RJP136Z | " 5 Pin | 1 | |
| E9 | RJP142Z | " 6 Pin, CN3 | 1 | |
| E10 | RJP144Z | " 6 Pin, | 1 | |
| E11 | RJP119Z | " 7 Pin, CP21 | 1 | |
| E12 | RJP204Z | " SP, Power | 1 | |
| E13 | RJS253X | Socket, 3 Pin | 1 | |
| E14 | RJS216X | " 4 Pin | 2 | |
| E15 | RJS217X | " 5 Pin | 2 | |
| E16 | RJS112X | " 6 Pin | 2 | |
| E17 | RJS219X | " 7 Pin | 1 | |
| E18 | RJT462Y | Terminal, Socket | 40 | |
| E19 | RJS163Z | Socket, Antenna | 1 | |
| E20 | RJT433Z | Terminal, Eject Switch | 2 | |
| E21 | RJT663Z | Spring, Eject Switch | 1 | |
| E22 | RJT665Z | Connector, 3 Pin, CN10~12, 14~16, 20 | 7 | |
| E23 | RJT666Z | Connector, 5 Pin, CN13 | 1 | |
| E24 | RJT667Z | " 7 Pin, CN19 | 1 | |
| E25 | RJT668Z | " 10 Pin, CN18 | 1 | |
| E26 | RJT671Z | " 4 Pin, CN17 | 1 | |
| E27 | RMX159Z | Insulator | 2 | |
| E28 | RMX160Z | " | 1 | |
| E29 | RDS3090A | Spring, Dial | 1 | |
| E30 | RDP207Z | Pointer, Dial | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|--------------------|------------|-------------------------------------|---------|---------|
| E31 | RDR9008Z | Roller, Dial | 3 | |
| E32 | RDZ05A | Cord, Dial | 1 | |
| E33 | RBC152Z | Button, Power | 1 | ROLL |
| E34 | RBC152Y | " Band, Loudness etc. | 3 | |
| E35 | RBC153Z | " Sens, Muting, etc. | 5 | |
| E36 | RBN537Z | Knob, Balance, Fader | 2 | |
| E37 | RBN538Z | " Volume | 1 | |
| E38 | RHG219Z | Rubber, Pilot Lamp | 2 | |
| E39 | RMP123Z | Holder, LED | 1 | |
| E40 | RMP124Z | " " | 1 | |
| E41 | RMC684Z | Shield Cover | 1 | |
| E42 | XSN3+14BVS | Screw, Power IC M'tg | 4 | S |
| E43 | XSN3+5S | " Deck, Eject Switch M'tg | 4 | S |
| E44 | XWA3B | Washer | 6 | S |
| E45 | XTN3+8B | Screw, Dial Back Plate etc. M'tg | 15 | S |
| E46 | XTN3+10B | Screw, PC Board M'tg | 1 | S |
| E47 | XSN3+6S | " Deck PC Board M'tg | 2 | S |
| E48 | XWG3 | Washer, Deck PC Board M'tg | 2 | S |
| E49 | XTW3+6F | Screw, Pointer Guide etc. M'tg | 19 | |
| E50 | XTW3+6FR | Red Screw, Tape Deck M'tg | 6 | |
| E51 | XTW3+8F | Screw, Heat Sink M'tg | 8 | |
| E52 | XWC3B | Washer | 8 | S |
| E53 | XNS8D | Nut, Volume M'tg | 3 | |
| E54 | RMR75Z | Bracket, Volume | 3 | |
| E55 | XAMR70T | DOVE LAMP Dome Lamp | 2 | |
| E56 | RJS205Y | Socket, Lamp | 2 | |
| E57 | RJP107Z | Plug, | 1 | |
| E58 | RUL408Z | Bracket, Socket | 1 | |
| ACCESSORIES | | | | |
| A1 | WRRRA-30XX | Dome Lamp Extension Wire | 1 | |
| A2 | WRRH-30XX | " | 1 | |
| A3 | RHR131Z | Wire Nut | 12 | |
| A4 | RKC61Z | Front Mounting Plate | 1 | |
| A5 | RKC61Y | " | 1 | |
| A6 | RKE320Z | Front Plate Cover | 1 | |
| A7 | RKC51X | Rear Mounting Plate | 1 | |
| A8 | RYED61001M | Rear Extension Plate | 1 | |
| A9 | RKE319Z | Padded Rear Cover | 1 | |
| A10 | RHR980Z | Wire Protector | 1 | |
| A11 | RHR1088Z | Foam Spacer | 2 | |
| A12 | XSN4+8C | Screw | 8 | S |
| A13 | XWA4B | Washer | 8 | S |
| A14 | XTN5+12AFX | Self Tap Screw | 2 | |
| A15 | XTN5+16B | " | 2 | S |
| A16 | XTN5+20AFZ | " | 2 | |
| A17 | XTB4+16AFN | " | 1 | |
| A18 | XWG4 | Flat Washer | 8 | S |
| A19 | XWG5F16 | " | 6 | S |
| A20 | XWA5B | Lock Washer | 4 | S |
| A21 | XNG5ES | Hex. Nut | 4 | S |
| A22 | RME202Z | Wire Clamp | 3 | |
| A23 | RME188Z | " | 6 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|-------------------|-------------|---|---------|---------|
| A24 | RHR993Z | Wire Clamp | 6 | |
| A25 | XBA1E60NS5 | Fuse | 2 | |
| A26 | RJT687Z | Male Adaptor Terminal | 1 | |
| A27 | RJT686Z | Male Adaptor Terminal | 1 | |
| A28 | RWAM310M | Power Cord Assembly | 1 | |
| A29 | RJP177Z | Antenna Cord | 1 | |
| A30 | RWN1M310M | Speaker Connector Assembly, (Front SP) | 1 | |
| A31 | RWN2M310M | Speaker Connector Assembly, (Rear SP) | 1 | |
| A32 | XTB3+10CFZ | Self Tap Screw | 4 | |
| A33 | RJT218Z | Terminal | 1 | |
| PACKING MATERIALS | | | | |
| P1 | RPN9344Z | Pad Complete | 1 | |
| P2 | RPK1249Z | Gift Box | 1 | |
| P3 | RPK2467Z | Carbon Box | 1 | |
| P4 | RPK818Z | Box | 1 | |
| P5 | RPN2927Z | Pad | 1 | |
| P6 | RPH322Z | Soft Sheet | 1 | |
| P7 | RPP258Z | Polyethylene Cover | 1 | |
| P8 | XZB20X40A04 | Polyethylene Cover | 1 | S |
| P9 | XZB10X15A04 | Polyethylene Cover | 1 | S |
| PRINTED MATERIALS | | | | |
| Y1 | RQX6819Z | Instruction Book | 1 | |
| Y2 | RQX9272Z | Instruction for Mounting | 1 | |
| Y3 | RQX9257Z | Caution Sheet | 1 | |
| Y4 | RQE18Z | Caution Tap | 1 | |